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USER'S OPERATING PROCEDURES

VOLUME II - SCOUT PROJECT FINANCIAL  
ANALYSIS PROGRAM

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PRC KENTRON, INC.  
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16 Abstract <u>VOLUME II.</u> <u>SCOUT PROJECT FINANCIAL ANALYSIS PROGRAM</u>  This contractor report is a review of the user's operating procedures for the Scout Project Automatic Data system, called SPADS. SPADS is the result of the past seven (7) years of software development on a Prime mini-computer located at the Scout Project Office, NASA Langley Research Center, Hampton, Virginia. SPADS was developed as a single entry, multiple cross-reference data management and information retrieval system for the automation of Project office tasks, including engineering, financial, managerial, and clerical support. This volume, two (2) of three (3), provides the instructions to operate the Scout Project Financial Analysis program in data retrieval and file maintenance via the user friendly menu drivers.					
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O-1     ACTUAL SUMMARY REPORT  
O-2     TASK SUMMARY REPORT  
O-3     WA SUMMARY REPORT  
O-4     VARIANCE SUMMARY REPORT  
O-5     YEARLY MIN-MAX REPORT



## 1.0 INTRODUCTION

During the research, development and operational phases of the Scout Project, large quantities of documentation are generated to describe analytical studies and correspondence from mission definition through postflight analysis. Some of these documents take the form of financial analyses, which are contained in the Contract Analysis data base.

The Contract Analysis file data base area contains financial and schedule information for the following:

MOTOR CONTRACTS	NAS1- 9258, 11400, 13100, and 14200
VEHICLE HARDWARE CONTRACT	NAS1-11000
CPFF SPECIAL PROGRAM CONTRACT	NAS1-15100 and NAS1-18100
SYSTEMS MANAGEMENT CONTRACTS	NAS1-10000, 12500, 15000, 16200, and NAS1-18200
OTHER MISCELLANEOUS CONTRACTS	NAS1-MISC.

This document is intended to provide the operating procedures required for a user to access the Financial Analysis program and retrieve data based on various query parameters, and for maintaining the analysis data files. Input, update, delete, retrieve, and report options will be discussed and illustrated. The following sections are designed to demonstrate the menu driven, user friendly methods by which a user is to operate with either a PT65 terminal or a DATAGRAPHIX-132 terminal. A PT65 is a PRIME terminal specialized for use in word processing. A DATAGRAPHIX-132 has a 132 character screen and will accommodate wider reports on the terminal screen. Please note that a PT65 must be DOWNLINE LOADED before operating any program.

Some commands are privileged commands and require a security clearance for use. The Analysis program checks internally for the proper clearance on a specific user ID before permitting entrance into certain areas of

the program.

## 1.1 SECTION DESCRIPTIONS

The purpose of this section is to give a brief description of each of the following sections of this document.

1. INTRODUCTION : Analysis data bases for financial contracts NAS1-9258, NAS1-10000, NAS1-11000, NAS1-11400, NAS1-12500, NAS1-13100, NAS1-14200, NAS1-15000, NAS1-15100, NAS1-16200, & MISCELLANEOUS. NAS1-FINAL will be incorporated into the data base when the follow-on contract number has been established.
2. BASIC OPERATIONS : Login, entering Analysis, record field descriptions, error messages and logout procedures.
3. SPECIAL OPERATIONS : Spooling and emergency / recovery procedures.
4. RETRIEVE : All operating procedures and examples for selecting a record from the Analysis data base using various search and retrieve criteria. The three (3) principle options of MOD, DELETE, and SPOOL are further discussed.
5. INPUT : All operating procedures and examples for inputting a new data record into the Analysis data base.
6. BOOK PART : All operating procedures and examples for Analysis data base query and output listing generation of retrieved records which satisfy the search criteria.
7. REPORT : All operating procedures and examples for generating and printing various specialized reports on hourly and cost information contained in the Analysis data base.
8. UPDATE : All operating procedures and examples for updating the financial data base and all supporting lookup tables. Housekeeping and sorting procedures are discussed along with rebuilding of job order and program number information in Analysis data base records.

9. RATE TABLE

: All operating procedures and examples for using the rate table as an adhoc calculator.

## 2.0 BASIC OPERATING PROCEDURES

The purpose of this section is to provide a description of the terminal actions the user must perform in order to login to the PRIME 750 computer system, enter the Contract Analysis program from the SPADS main menu, and then exit the system. Note that all user actions are terminated with a carriage return, designated by the key marked RETURN on the terminal. Input forms, update forms, and error messages will also be discussed.

### 2.1 LOGIN

User actions for login are displayed below. The user's initials are denoted by 'XXX'; 'N' is the terminal line number; 'HR', 'MN', and 'SC' are the time the user entered the system in hours, minutes, and seconds; 'MM', 'DD', and 'YY' are the month, day, and year. See the example below.

OK, LOGIN PLEASE

LOGIN XXX  
Password?

XXX (USER N) LOGGED IN DAY, DD MM YY HR:MN:SC  
Welcome to PRIMOS version REV#.  
Last login Day, DD MM YY HR:MN:SC

HI !,

ENTER PASSWORD >

Note that for security reasons the passwords are not visible on the terminal screen. If no password has been assigned, simply hit the carriage return. An incorrect first password will result in the following error message: 'Invalid user id or password; please try again'.

An incorrect second password will result in an '\*\* ERROR \*\*' message with up to three retries. On the third incorrect attempt, the system will automati-

cally log the user off the system. If the login and password procedures are performed correctly, the user will see a display of the SYSTEM NEWS on the terminal. The SYSTEM NEWS is a short description of any special events affecting operations of the computer system. See the example below:

#### SYSTEM NEWS =====

```
*****
*      PRIME MONTHLY PREVENTIVE MAINTENANCE      *
*              NOW SCHEDULED FOR THE FIRST        *
*      MONDAY OF EACH MONTH ... 7 TO 9 AM (EST)   *
*****
```

## 2.2 PROGRAM ENTRY

After system login has been completed, the user must specify the program selection from the SPADS main menu displayed on the terminal screen as shown below. In the 'WELCOME' acknowledgement to the user, 'AAAAAA' represents the first name. See the following example:

Welcome AAAAAA to the PRIME 750 SPADS Main Menu

The following is a list of programs for the Scout Project Office  
\*\*\*\*\*

( 0) Logout Menu	( 1) Change Request
( 2) Dir / Report	( 3) Motor Information
( 4) Office Automation	( 5) Mark Up's / CR'S
( 6) Program Development	( 7) Scheduler System
( 8) Contracts Analysis	( 9) Mail Log Correspondence
(10) Property Inventory	(11) History Information
(12) Cross Refer. Index	(13) Alpha Numeric Index
(14) Daily Work Items	(15) Conference Registration
(16) Pilot Study - Future Program	(17) Telemail Network

-----

Enter Option Number >

Note that Contract Analysis is option #8 on the SPADS main menu.

## 2.3 PROGRAM EXIT

To leave the Analysis program the user must enter a zero as shown on the menu. Note that in most cases a carriage return is interpreted as a zero entry. Exit from a menu will return the user to the previous menu until the Analysis Contract selection menu is reached. The user can then display the spool queue, display all users currently logged into the system, return to the SPADS master menu, or logout. These options are discussed in further detail in section 2.4 of this document.

## 2.4 ENTERING ANALYSIS

The first menu displayed to the user is the Contract selection menu as shown below.

```
WELCOME TO THE SCOUT PROJECT OFFICE CONTRACTS ANALYSIS SYSTEM
*****
```

```

              (0)  LOGOUT

(1)  NAS1-9258      (7)  NAS1-14200      (22)  NAS1-MISCELLANEOUS
(2)  NAS1-10000     (8)  NAS1-15000      (33)  DISPLAY SPOOL QUEUE
(3)  NAS1-11000     (9)  NAS1-15100      (44)  DISPLAY USERS ON SYSTEM
(4)  NAS1-11400     (10) NAS1-16200      (55)  DISPLAY PHANTOMS & JOBS
(5)  NAS1-12500     (11) NAS1-18100      (66)  SEND MESSAGE TO USER
(6)  NAS1-13100     (12) NAS1-18200      (77)  ANSWER MESSAGE FROM USER

              (99)  RETURN TO SPADS MAIN MENU
```

ENTER OPTION >

Option 0 ends the user session by performing a system logout.

Options 1 through 12 and 22 enter the user into the selected contract data area.

Options 33 and 44 perform system lookup functions for the user. Option 33 displays the spool queue for status of any output sent to any printer on the system. See the following example:

ENTER OPTION > 33

[SPOOL rev 19.2.3]

user	pri	time	name	size	opts/#	form	defer	at: PRO
DKH	001	9:45	P00717 -DH1	1	N 1	NOTE	9:45	B
CGH	002	9:46	TWO.1	2		COMP	11:00	A

Return to Continue: \*\* return \*\*

Option 44 displays the ID codes and terminal line numbers for all users currently logged into the SPADS computer. See the following example:

ENTER OPTION > 44

User	No	Line	Devices
CL1	6	4	<PRJDEV> <COMDEV>
SMH	7	5	<PRJDEV> <COMDEV>
CGH	11	11	<ADMDEV>
DKH	18	20	<ADMDEV> <OASDEV>

Return to Continue: \*\* return \*\*

Option 55 displays any slow batch jobs or fast phantoms the user has submitted during the execution of a Cost or Proration report (see sections 7.4, 7.5 and 7.6 of this document). See the following example:

ENTER OPTION > 55

Currently Executing:

User	No	Line	Devices
DPB	3	1	<ADMDEV> <SPODEV>
DPB	71	phant	<ADMDEV> <COMDEV>
DPB	73	batch	<ADMDEV> <SPODEV> <COMDEV> (0)

Slow Batch Jobs:

[JOB rev 19.2.9]

Job status listing for user DPB:

Jobid#	State	External name	Queue
#03331	executing	PHAN.COST	slow
#03332	waiting	PHAN.HOURSUB	
#03333	waiting	PHAN.PROHRS	
#03334	waiting	PHAN.PRORAT	
#03335	waiting	PHAN.POP2	

RETURN TO CONTINUE: \*\* return \*\*

Option 66 allows the user to send a multiple line message to another user currently logged into the system. This option may also be invoked by option 11 on the OAS main menu (see section 4.0 of Volume I). A list of currently available users will be displayed on the terminal screen along with a list of available commands. The appropriate user ID must then be entered. The system will then 'call' the desired user, who must answer the call before the message may be sent. If the user does not answer his 'ring', an opportunity will be given to call again or exit the routine. At the prompt 'SEND>', type the message. Multiple lines may be entered. To end the message, press ts the 'CMND' or 'CONTROL' key and the 'E' key simultaneously, and then enter a carriage return. This must be the first character entered at the 'SEND>' prompt. To exit the routine, press the 'CMND' key or the 'CONTROL' key and the 'P' key simultaneously, and enter option 4 on the menu. See the following example.

ENTER OPTION > 66

.....ACTIVE USER LIST.....

CGH	DPB	DKH
SL1	GMG	PMK
CH1	CL1	PH1



AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>1

WHO DO YOU WISH TO CALL

\*

GMG

ONE MOMENT PLEASE...

\*

PHONE IS RINGING...

\*

YOUR PARTY IS NOT RECEIVING CALLS AT THIS TIME !

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>3

.....ACTIVE USER LIST.....

CGH  
SL1  
CH1

ABR  
GMG  
CL1

DKH  
PMK  
FS2

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>1

WHO DO YOU WISH TO CALL

\*

CGG

ONE MOMENT PLEASE...

\*

PARTY NOT LOGGED IN !

AVAILABLE COMMANDS

1. CALL
2. ANSWER

3. ACTIVE USERS  
4. DISCONNECT

```
CMD>1
WHO DO YOU WISH TO CALL
*
CGH
ONE MOMENT PLEASE...
*
PHONE IS RINGING...
*
YOUR PARTY IS NOT RESPONDING...CONTINUE WAITING(Y/N)
Y
*
WAITING...
*

TYPE CNTL -P- TO HANGUP PHONE
*
TYPE CNTL -E- TO END MESSAGE
SEND>THIS IS A TEST MESSAGE
SEND>THIS IS THE LAST LINE OF THE MESSAGE
SEND>(* CNTL E * return *)
*
DATA SENT....WAITING FOR RESPONSE
*****

THANK YOU FOR MESSAGE. GOODBYE.
*****

TYPE CNTL -P- TO HANGUP PHONE
*
TYPE CNTL -E- TO END MESSAGE
SEND>(* CNTL E * return *)
*
LINE DISCONNECTED
*
```

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD> 4

Option 77 allows the user to receive a multiple line message from another user currently logged into the system. This option is also invoked by option 12 on the OAS main menu (see section 4.0 of Volume 1).

When a user receives the following message:

```
'*** XXX (user #) AT HH:MM
INCOMING CALL ... TYPE PHONE !'
```

where XXX is a user ID and HH:MM is the time in hours and minutes, this indicates that the user, after exiting his current program, should type '79' at the Exit menu. A list of the currently available users will be displayed on the terminal screen, along with a list of available commands. Next, 'PLEASE HOLD ... INCOMING CALL' will be displayed. A longer message may take several minutes to be typed in by the sender. After the message has been sent, the prompt 'SEND>' will appear, at which a reply may be sent. This operation is described under option 69 in the previous paragraph. See the following example.

ENTER OPTION > 77

.....ACTIVE USER LIST.....

CGH	DCM	DKH
SL1	GMG	PMK
CH1	CL1	FS2

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>2

\*

PLEASE HOLD...INCOMING CALL

\*\*\*\*\*

THIS IS A TEST MESSAGE

THIS IS THE LAST LINE OF THE MESSAGE

\*\*\*\*\*

TYPE CNTL -E- TO END MESSAGE

\*

TYPE CNTL -P- TO HANGUP PHONE

SEND>THANK YOU FOR MESSAGE. GOODBYE.  
SEND>(\* CNTL E \* return \*)

DATA SENT...WAITING FOR RESPONSE  
\*  
LINE DISCONNECTED  
\*

#### AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD> 4

Option 99 displays the SYSTEM NEWS and reinitializes the SPADS main menu.

Once entered into the selected contract data area the user is next given the Analysis main menu as shown below.

```
*****  
*                                     *  
*      CONTRACT:  NAS1-16200      *  
*                                     *  
*****
```

- (0) EXIT (QUIT AND EXIT THIS CONTRACT - RETURN TO CONTRACTS MENU )
  - (1) RETRIEVE (SEARCH, GET, AND DISPLAY ON TERMINAL DATA BASE RECORDS )
  - (2) INPUT (ADD NEW WA RECORD TO THE DATA BASE - PRIVILEGED COMMAND)
  - (3) BOOK PART (SEARCH, GET, AND OUTPUT TO A PRINTER DATA BASE RECORDS )
  - (4) REPORT (GENERATE SPECIAL FINANCIAL REPORTS - PRIVILEGED COMMAND)
  - (5) UPDATE (HOUSEKEEPING AND UPDATE OPERATIONS - PRIVILEGED COMMAND)
  - (6) RATETABLE (USE THE RATE TABLE AS A CALCULATOR - PRIVILEGED COMMAND)
- 

ENTER OPTION >

The Contract Analysis file program main menu has six (6) options:

options 2, 4, 5, and 6, INPUT, REPORT, UPDATE, and RATETABLE, which are privileged options and require a security clearance, and options 1 and 3, RETRIEVE and BOOK PART, which have open access. All of these options are discussed in the following sections.

## 2.5 FINANCIAL ANALYSIS RECORD DESCRIPTION

The following field names are available for retrieving analysis records:

1) DATE	2) STATUS	3) NOJOS
4) RNTM	5) SYSNUM	6) TITLE
7) MOD	8) CNT	9) REMARKS
10) NR	11) CR	12) RBK
13) PR	14) CONT	15) TASK
16) TASKAS	17) TASKSB	18) WAN
19) WACODE	20) COMPLETE	21) R.T.HRS
22) R.T.BOM	23) ACTBOM	24) TABLE
25) TOTHR	26) TOTDOL	

The descriptions for these fields are listed below.

1) DATE	:	DATE RECORD WAS LAST MODIFIED - MON, MAR 07 1983
2) STATUS	:	STATUS OF RECORD - "AUT" FOR AUTHORIZED "FUT" FOR FUTURE
3) NOJOS	:	NUMBER OF JOB ORDERS FOR THIS RECORD
4) RNTM	:	NUMBER OF MONTHS FOR THIS RECORD
5) SYSNUM	:	SYSTEM ITEM NUMBER FOR THIS RECORD
6) TITLE	:	TITLE FOR THIS RECORD (PARTIAL SEARCH FIELD)
7) MOD	:	CONTRACT MOD NUMBERS - 4 ENTRIES (PARTIAL SEARCH FIELD)
8) CNT	:	CONTRACTOR FOR THIS RECORD
9) REMARKS	:	REMARKS FOR THIS RECORD (PARTIAL SEARCH FIELD)
10) NR	:	NASA RESPONSIBLE ENGINEER FOR THIS RECORD
11) CR	:	CONTRACTOR RESPONSIBLE ENGINEER FOR THIS RECORD
12) RBK	:	REQUIREMENT BECOMES KNOWN
13) PR	:	PURCHASE REQUEST FOR THIS RECORD
14) CONT	:	CONTRACT FOR THIS RECORD EXAMPLE : NAS1-16200
15) TASK	:	TASK - SINGLE ALPHABETIC CHARACTER (A-Z)
16) TASKAS	:	TASK ASSIGNMENT - 1ST 3 DIGITS OF SUBTASK
17) TASKSB	:	TASK SUB - 2 DIGIT DECIMAL PART OF SUBTASK
18) WAN	:	WA NUMBER - MAXIMUM OF 4 DIGITS - EXAMPLE : 3008
19) WACODE	:	WA CODE - MAXIMUM OF 4 CHARACTERS - EXAMPLE : HAND
20) COMPLETE	:	COMPLETED TASK (YES OR NO)
21) EACHRS	:	HOURS FOR ESTIMATES-AT-COMPLETION
22) EACBOM	:	ODC-MATERIAL ESTIMATES-AT-COMPLETION DOLLARS

23) ACTBOM : \*\*\*\*\* FIELD IS NO LONGER IN USE \*\*\*\*\*  
24) TABLE : JOB ORDER TABLE "SUST" FOR SUSTAINING "MANL" FOR MANUAL  
25) TOTHRs : TOTAL AUTHORIZED HOURS  
26) TOTDOL : TOTAL AUTHORIZED DOLLARS

It should be noted that most users will find the following field searches to result in the most productive retrievals:

6) TITLE	7) MOD	9) REMARKS	10) NR	11) CR
12) RBK	15) TASK	16) TASKAS	17) TASKSB	18) WAN
19) WACODE	20) COMPLETE	24) TABLE		

## 2.6 INPUT OPERATIONS

The Contract Analysis file uses FORTRAN input forms in its input mode of operation. All data field entries must be placed between exclamation points, one line (or one field) at a time. For example,

#3) AUTHOR  
!

!

When all the data has been entered for a record header, the job orders and the hours and dollars data must then be built. The input option is discussed in further detail in section 5.0 of this document.

## 2.7 UPDATE OPERATIONS

The FORTRAN update forms are generated similarly to the FORTRAN input forms. Data is entered between exclamation points, one line (or one field) at a time. For further details, see sections 4.1 and 8.0 of this document.

## 2.8 SYSTEM EXIT / LOGOUT

System logout is always accomplished with the zero option on every menu throughout the SPADS system as demonstrated in the Contract Analysis

menu below. Note that the user will always be given an opportunity to logout prior to returning to the SPADS main menu. See the example below:

```
WELCOME TO THE SCOUT PROJECT OFFICE CONTRACTS ANALYSIS SYSTEM
*****
```

```

                                (0)  LOGOUT

(1)  NAS1-9258                (7)  NAS1-14200                (22)  NAS1-MISCELLANEOUS
(2)  NAS1-10000               (8)  NAS1-15000                (33)  DISPLAY SPOOL QUEUE
(3)  NAS1-11000               (9)  NAS1-15100                (44)  DISPLAY USERS ON SYSTEM
(4)  NAS1-11400               (10) NAS1-16200                (55)  DISPLAY PHANTOMS & JOBS
(5)  NAS1-12500               (11) NAS1-18100                (66)  SEND MESSAGE TO USER
(6)  NAS1-13100               (12) NAS1-18200                (77)  ANSWER MESSAGE FROM USER

                                (99)  RETURN TO SPADS MAIN MENU
```

ENTER OPTION > 0

XXX (N) LOGGED OUT MMDDYY HR:MN:SC  
Where XXX, N, MM, DD, YY, HR, MN, and SC are the same as in Section 2.1.

The zero (0) option on the SPADS main menu (section 2.1) displays a logout menu rather than performing a system logout. This menu appears as follows:

The following is a list of LOGOUT Options  
=====

```
(0)  Return to SPADS Menu
(1)  Logout Current Terminal
(2)  Logout Other Terminals with same User ID
```

Enter Option Number >

Option 0 returns the user to the SPADS main menu. Option 1 performs a system logout on the terminal at which the user is currently logged in. Option 2 performs a system logout on all other terminals at which the user is logged in with the same User ID. This option is very useful in cases

such as a PT65 terminal with a locked keyboard needing to be force logged out. Rather than calling the system administrator, the user may login to another terminal, go to the logout menu and select option 2. A message confirming the logout of another terminal will be displayed, such as: 'User 11 logged out'. If no other terminals are logged in using the same USER ID and option 2 is selected, the user will be returned to the SPADS main menu.



### 3.0 SPECIAL OPERATIONS

This section will discuss special operating procedures such as spooling and emergency / recovery procedures.

#### 3.1 PRINTOUT SPOOLING

All SPADS programs display a series of questions upon request to get a hard copy of a listing or report by the user. This printing process is called SPOOLING. Note that the system printer located in the Scout Project Computer Room is approximately 25 times faster than any of the letter quality printers, LQPs, on the system. Vought Corporation in Dallas, Texas, also has a system printer which is designated as 'W'. This Printronix line printer is half the speed of the Scout system printer. The LQP's designated to have long computer paper are LQP A (located in room 109B of the Scout Project Office) and LQP B (located in Vought Corp., Dallas, Texas).

All other LQP's are designated as single sheet word processing printers. Due to their slow speed, the LQP's should spool a large printout or a large number of copies only in the case of an emergency.

The user first responds to the type of printer to which the desired output is to be spooled. A zero entry is used to cancel the output desired. The user is then asked to give the number of copies to be printed. The maximum number of copies allowed is five (5). A zero entry again cancels the output desired. See the example of the spooling process below:

=====

SPOOLING MENU

=====

OUTPUT TO :

- 0) NO OUTPUT !!!
- 1) SCOUT PROJECT OFFICE / LARC, NASA
- 2) VOUGHT CORPORATION / DALLAS, TX
- 3) PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER >

Option number 1 generates the menu for the Scout Office printer options :

OUTPUT TO :

- 0) START OVER
- 1) LQP A - COMPUTER PAPER
- 2) LQP B - SINGLE SHEET
- 3) LQP G - DUAL SHEET
- 4) SCOUT SYSTEM PRINTER

ENTER OPTION NUMBER >

Option number 2 generates the menu for the Vought Corp. Dallas office printer options :

OUTPUT TO :

- 0) START OVER
- 1) LQP S - SINGLE SHEET
- 2) LQP T - COMPUTER PAPER
- 3) DALLAS SYSTEM PRINTER / W

ENTER OPTION NUMBER >

Option number 3 generates the menu for the Projects Directorate printer options:

OUTPUT TO :

- 0) START OVER
- 1) LQP C - SINGLE SHEET
- 2) LQP D - SINGLE SHEET
- 3) LQP E - SINGLE SHEET
- 4) LQP F - SINGLE SHEET
- 5) ETI SYSTEM PRINTER / H

ENTER OPTION NUMBER >

The Zero (0) option on the Scout printer, the Dallas printer, and the Projects Directorate printer menus will restart the main spool menu.

After the desired printer option has been chosen, a prompt for entering the number of copies appears as follows :

ENTER NUMBER OF COPIES >  
(MAX. OF 5)  
(0 TO ABORT)

A 'NO OUTPUT SPOOLED !!!!!' message appears on the terminal screen on either zero (0) entry explained previously.

### 3.2 EMERGENCY / RECOVERY

The following procedures have been designed to allow the user to recover and continue SPADS operations should an error occur.

#### 3.2.1 SOFTWARE / OPERATOR ERRORS FOR SPADS

If an error occurs and sends the user out of a SPADS program into the PRIME 750 operating system, the following message will be displayed: 'ERROR: C ALL / SPADS'. The user should then type 'C ALL' and return. This step is very important to the recovery procedure since it closes all open files that the user was using. The user should then type 'SPADS' and enter a return to restart the SPADS main menu.

#### 3.2.2 FILE IN USE

All SPADS programs allow only one user at a time within a data file area. When a user attempts to select a program that another user has

accessed, a 'FILE IN USE' message will be displayed on the screen. The prompt 'ERROR: C ALL / SPADS' will then be displayed.

#### 4.0 RETRIEVE OPTION

When the Retrieve option (option 1) on the Analysis program main menu is selected, the user must enter the field number(s) of the field(s) by which the desired record is to be retrieved. An 'H' may be entered to indicate that the user needs 'HELP' with the field selection and a listing of the field names with their descriptions will be displayed. After entering the appropriate field number the user will then enter the desired value for that field of the retrieval record. Multiple fields may be used for retrieving a record. A carriage return indicates that no more fields will be entered, and the system is to begin searching for the desired record. If the desired record is not found, the user will be returned to the program main menu. If the desired record is found, it will be displayed in three sections: the header, the job order data, and the hours and dollars data.

The user has five options available when the desired record has been displayed: (1) the user may MOD the record; (2) the user may search for the NEXT record having the search criteria; (3) the user may SPOOL the record currently displayed; (4) the user may DELETE the record currently displayed; (5) the user may enter a carriage return to return to the program main menu. The MOD, DELETE, and SPOOL options are discussed further in the following sections.

#### 4.1 MOD OPTION

The MOD option may be performed in two ways: ADD or REPLACE. Both options allow the user to make changes to an analysis record in the same way, but with different results. The REPLACE method allows the user to modify the record currently displayed. The ADD method creates a record identical to that which has been retrieved. The changes made by the user are then

Incorporated into the new record in the data base, and the record which was retrieved keeps its original form. It should be noted that in order to use the ADD method the user must have the proper clearance to input into the Contract Analysis data base.

Changes to an analysis record are made in three sections: header changes, job order changes, and hours and dollars data changes. If the user selects to modify the header, specific field numbers must be entered to indicate which fields are to be changed. If the user enters any letter rather than a field number, the HELP list of field names and descriptions will be displayed at the terminal screen. As each field number is entered, the user will be prompted for the new field values. The modified record's header and job order data will then be displayed and the user may either select to modify the header or the job order data, or enter a carriage return if no more changes to the header or the job orders are desired. If the user chooses to modify the job order data, the following options are available: ADD, CHANGE, DELETE, and AUTO. The ADD option allows the user to add job orders to the record. CHANGE allows the user to change the job order data. DELETE allows the user to delete any or all of the job orders in the record. AUTO allows the user to build a new set of job orders from the sustaining job order table which contains a predefined set of job orders for each task and / or subtask.

#### 4.1.1 SAMPLE MOD / ADD OPTION

The following example illustrates the MOD / ADD option with changes to the header data and the job order data, including the delete and change options.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE          2) STATUS          3) NOJOS
4) RNTM          5) SYSNUM          6) TITLE
7) MOD           8) CNT             9) REMARKS
10) NR           11) CR             12) RBK
13) PR           14) CONT           15) TASK
16) TASKAS       17) TASKSB         18) WAN
19) WACODE       20) COMPLETE       21) R.T.HRS
22) R.T.BOM      23) ACTBOM          24) TABLE
25) TOTHR       26) TOTDOL
=====
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 6

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:10 MONTHS: 1 SYS ITEM NO: 6

TITLE:PROGRAM MANAGEMENT (SPAC)

MOD: , , , CONTRACTOR:VOUGHT

REMRK:

NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:

RBK: PURCHASE REQUEST:

CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:A SUBTASK: .

WORK AUTHORITY:3381 WA CODE:AE COMPLETED TASK:YES TABLE:SUST

R.T. HRS: 0 R.T. DOLLARS: 0

TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

MORE ? > \*\* return \*\*

Note: the default value for a carriage return  
is 'Y' for YES.

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7194A	49002025700000400	0.000	6.767	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7196A	49002021700000400	0.000	9.578	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7198A	49004172700000483	0.000	6.271	0.000	0.000	0.000

0.000 0.000 0.000 0.000

MORE ? > \*\* return \*\*

MMM YR CMAA	CUM EAC SPREAD		CUM ACTUALS		COMPLETION(EAC)	
	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS
OCT 76	0	67500	0	67426	0	67426

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > 1

(1) ADD, (2) REPLACE (RETURN IF FINISHED) > 1

(1) HEADER (2) JOBORDER (RETURN) > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE                2) STATUS                3) NOJOS
4) RNTM                5) SYSNUM                6) TITLE
7) MOD                 8) CNT                  9) REMARKS
10) NR                 11) CR                 12) RBK
13) PR                 14) CONT                15) TASK
16) TASKAS            17) TASKSB             18) WAN
19) WACODE            20) COMPLETE           21) R.T.HRS
22) R.T.BOM           23) ACTBOM             24) TABLE
25) TOTHRs            26) TOTDOL
=====
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15

ENTER VALUE > Z

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > TITLE

Note that the HELP list of fields and descriptions was invoked by entering a name in place of a #.

=====

THE FOLLOWING ARE HEADER FIELDS AND THEIR DESCRIPTIONS:

=====

1) DATE	:	DATE RECORD WAS LAST MODIFIED - MON, MAR 07 1983
2) STATUS	:	STATUS OF RECORD - "AUT" FOR AUTHORIZED "FUT" FOR FUTURE
3) NOJOS	:	NUMBER OF JOB ORDERS FOR THIS RECORD
4) RNTM	:	NUMBER OF MONTHS FOR THIS RECORD
5) SYSNUM	:	SYSTEM ITEM NUMBER FOR THIS RECORD
6) TITLE	:	TITLE FOR THIS RECORD (PARTIAL SEARCH FIELD)
7) MOD	:	CONTRACT MOD NUMBERS - 4 ENTRIES (PARTIAL SEARCH FIELD)
8) CNT	:	CONTRACTOR FOR THIS RECORD
9) REMARKS	:	REMARKS FOR THIS RECORD (PARTIAL SEARCH FIELD)
10) NR	:	NASA RESPONSIBLE ENGINEER FOR THIS RECORD
11) CR	:	CONTRACTOR RESPONSIBLE ENGINEER FOR THIS RECORD
12) RBK	:	REQUIREMENT BECOMES KNOWN
13) PR	:	PURCHASE REQUEST FOR THIS RECORD
14) CONT	:	CONTRACT FOR THIS RECORD EXAMPLE : NAS1-16200



15) TASK : TASK - SINGLE ALPHABETIC CHARACTER (A-Z)  
 16) TASKAS : TASK ASSIGNMENT - 1ST 3 DIGITS OF SUBTASK  
 17) TASKSB : TASK SUB - 2 DIGIT DECIMAL PART OF SUBTASK  
 18) WAN : WA NUMBER - MAXIMUM OF 4 DIGITS - EXAMPLE : 3008  
 19) WACODE : WA CODE - MAXIMUM OF 4 CHARACTERS - EXAMPLE : HAND

MORE? > NO

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 6

INPUT TITLE (UP TO 72 CHARACTERS)  
 TEST ENTRY FOR SAMPLE MOD / ADD

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:10 MONTHS: 1 SYS ITEM NO: 6  
 TITLE:TEST ENTRY FOR SAMPLE MOD / ADD  
 MOD: , , , CONTRACTOR:VOUGHT  
 REMRK:  
 NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:  
 RBK: PURCHASE REQUEST:  
 CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:Z SUBTASK: .  
 WORK AUTHORITY:3381 WA CODE:AE COMPLETED TASK:YES TABLE:SUST  
 R.T. HRS: 0 R.T. DOLLARS: 0  
 TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7194A	49002025700000400	0.000	6.767	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7196A	49002021700000400	0.000	9.578	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7198A	49004172700000483	0.000	6.271	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	

(1) HEADER (2) JOBORDER (RETURN) > 2

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 2

DELETE ALL OR PART (RETURN IF FINISHED) > PART

ENTER JOB ORDER TO BE DELETED  
RETURN IF FINISHED

ANNNNA  
E7149A

JO: E7149A NOT FOUND.

\*\* Note the error message. \*\*

ENTER JOB ORDER TO BE DELETED  
RETURN IF FINISHED

ANNNNA  
E7194A

ENTER JOB ORDER TO BE DELETED  
RETURN IF FINISHED

ANNNNA  
E7196A

ENTER JOB ORDER TO BE DELETED  
RETURN IF FINISHED

ANNNNA  
\*\* return \*\*

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 3

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) JO          2) JOSUB          3) PROGNO
4) %ALL        5) %FY1          6) %FY2
7) %FY3        8) %FY4          9) %FY5
10) %FY6       11) %FY7         12) %FY8
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > JO

=====

THE FOLLOWING ARE JOBORDER FIELDS AND THEIR DESCRIPTIONS:

=====

```
1) JO      :   JOB ORDER FIELD - EXAMPLE : E8212A
2) JOSUB   :   SUB JOB ORDER  - MAXIMUM LENGTH OF TWO CHARACTERS
3) PROGNO  :   PROGRAM NUMBER - EXAMPLE - 49002024400000400
4) %ALL    :   ALL FISCAL YEARS PERCENT - 3 DECIMAL PLACES
5) %FY1    :   1ST FISCAL YEAR PERCENT - 3 DECIMAL PLACES
6) %FY2    :   2ND FISCAL YEAR PERCENT - 3 DECIMAL PLACES
7) %FY3    :   3RD FISCAL YEAR PERCENT - 3 DECIMAL PLACES
8) %FY4    :   4TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
9) %FY5    :   5TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
10) %FY6   :   6TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
11) %FY7   :   7TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
12) %FY8   :   8TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 1

ENTER JO VALUE AS:  
ANNNNA  
E7200A

WHICH JOB ORDER IS TO BE CHANGED  
ANNNNA  
E7200A

JO: E7200A NOT FOUND.

\*\* Note the error message. \*\*

WHICH JOB ORDER IS TO BE CHANGED  
ANNNNA  
E7198A

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S: 8 MONTHS: 1 SYS ITEM NO: 6  
TITLE:TEST ENTRY FOR SAMPLE MOD / ADD  
MOD: , , , CONTRACTOR:VOUGHT  
REMRK:  
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:  
RBK: PURCHASE REQUEST:  
CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:Z SUBTASK: .  
WORK AUTHORITY:3381 WA CODE:AE COMPLETED TASK:YES TABLE:SUST  
R.T. HRS: 0 R.T. DOLLARS: 0  
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7200A	49004172700000483	0.000	6.271	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	

(1) HEADER (2) JOBORDER (RETURN) > 2

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 3

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

=====

1) JO	2) JOSUB	3) PROGNO
4) %ALL	5) %FY1	6) %FY2
7) %FY3	8) %FY4	9) %FY5

10) %FY6

11) %FY7

12) %FY8

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) &gt; 6

!NNN.NNNI

100.000

WHICH JOB ORDER IS TO BE CHANGED

ANNNNA

E7200A

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) &gt; \*\* return \*\*

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S: 8 MONTHS: 1 SYS ITEM NO: 6

TITLE:TEST ENTRY FOR SAMPLE MOD / ADD

MOD: , , , CONTRACTOR:VOUGHT

REMRK:

NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:

RBK: PURCHASE REQUEST:

CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:Z SUBTASK: .

WORK AUTHORITY:3381 WA CODE:AE COMPLETED TASK:YES TABLE:SUST

R.T. HRS: 0 R.T. DOLLARS: 0

TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7200A	49004172700000483	0.000	6.271	100.000	0.000	0.000
		0.000	0.000	0.000	0.000	

(1) HEADER (2) JOBORDER (RETURN) &gt; \*\* return \*\*

DATA CHANGE DESIRED (Y OR N) &gt; N

ITEM ADDED TO DATA BASE

Note: a copy of the retrieval record with modifications has been added to the data base. The original record has not been changed.

SYSTEM ITEM NUMBER = 615

#### 4.1.2 SAMPLE MOD / ADD OPTION WITH JOB ORDER CHANGES

When the AUTO option for changing job order data is invoked, the system refers to the sustaining table for the job orders and fiscal year percents corresponding to the task and subtask (if applicable) of the retrieved record. The system then refers to the program number table and searches for the job orders found in the sustaining table to retrieve the corresponding program numbers. As each job order and its program number is found in the program number table a message stating so will be displayed at the terminal screen. If a job order from the sustaining table is not located in the program number table, the system will prompt the user for the program number corresponding to that job order. The job order and the manually input program number will then be automatically entered into the program number table.

When the ADD option is invoked, the user may enter job orders one at a time. As each job order and job order subcode (if desired) is entered, the system refers to the program number table to retrieve the corresponding program number. If the job order is not found in the program number table, the user must enter the program number manually. It should be noted that if the user has entered an incorrect job order, no error messages will be displayed, since the system will create a new job order and enter it and the manually input program number into the program number table. If needed, the user may delete the job order from the record by using the DELETE option. The incorrect job order may be deleted from the program number table by using the edit table option under the update option, which is discussed in section 8.0. Refer to the following example for an illustration of the MOD / ADD option with changes to the job order data using the DELETE, AUTO, and ADD options.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE           2) STATUS           3) NOJOS
4) RNTM           5) SYSNUM           6) TITLE
7) MOD            8) CNT              9) REMARKS
10) NR            11) CR              12) RBK
13) PR            14) CONT            15) TASK
16) TASKAS        17) TASKSB          18) WAN
19) WACODE        20) COMPLETE        21) R.T.HRS
22) R.T.BOM       23) ACTBOM          24) TABLE
25) TOTHRs        26) TOTDOL
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 3

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:10 MONTHS: 1 SYS ITEM NO: 3  
TITLE:PROGRAM MANAGEMENT

MOD: , , , CONTRACTOR:VOUGHT

REMRK:

NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:

RBK: PURCHASE REQUEST:

CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:A SUBTASK: .

WORK AUTHORITY:3381 WA CODE:AB COMPLETED TASK:YES TABLE:SUST

R.T. HRS: 0 R.T. DOLLARS: 0

TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

MORE ? > N

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > 1

(1) ADD, (2) REPLACE (RETURN IF FINISHED) > 1

(1) HEADER (2) JOBORDER (RETURN) > 2

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 2

DELETE ALL OR PART (RETURN IF FINISHED) > ALL

JOB ORDER(S) DELETED

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 4

JOB ORDER E6000A FOUND.

JOB ORDER E7000A FOUND.

JOB ORDER E6186A FOUND.

JOB ORDER E6188A FOUND.

JOB ORDER E6189A FOUND.

JOB ORDER E6191A FOUND.  
 JOB ORDER E7193A FOUND.  
 JOB ORDER E7194A FOUND.  
 JOB ORDER E7196A FOUND.  
 JOB ORDER E7198A FOUND.

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:10 MONTHS: 1 SYS ITEM NO: 3  
 TITLE:PROGRAM MANAGEMENT  
 MOD: , , , CONTRACTOR:VOUGHT  
 REMRK:  
 NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:  
 RBK: PURCHASE REQUEST:  
 CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:A SUBTASK: .  
 WORK AUTHORITY:3381 WA CODE:AB COMPLETED TASK:YES TABLE:SUST  
 R.T. HRS: 0 R.T. DOLLARS: 0  
 TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7194A	49002025700000400	0.000	6.767	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7196A	49002021700000400	0.000	9.578	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7198A	49004172700000483	0.000	6.271	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	

(1) HEADER (2) JOBORDER (RETURN) > 2

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 1

\*\*\*\*\*  
 J. O. ALL-% 77-% 78-% 79-% 80-% 81-% 82-% 83-% 84-%  
 I INNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!  
 E7199A 100.000 100.000

JO-SUBCODE

I I  
 X

FOR PROGRAM NO., ENTER BLANK AT FIRST POSITION  
 NNNNNNNNNNNNNNNNN  
 49001C24408000400

\*\*\*\*\*

J. O. ALL-% 77-% 78-% 79-% 80-% 81-% 82-% 83-% 84-%  
! INNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN  
\*\* return \*\*

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:11 MONTHS: 1 SYS ITEM NO: 3

TITLE:PROGRAM MANAGEMENT

MOD: , , , CONTRACTOR:VOUGHT

REMRK:

NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:

RBK: PURCHASE REQUEST:

CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:A SUBTASK: .

WORK AUTHORITY:3381 WA CODE:AB COMPLETED TASK:YES TABLE:SUST

R.T. HRS: 0 R.T. DOLLARS: 0

TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7194A	49002025700000400	0.000	6.767	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7196A	49002021700000400	0.000	9.578	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7198A	49004172700000483	0.000	6.271	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7199A X	49001024408000400	0.000	0.000	100.000	100.000	0.000
		0.000	0.000	0.000	0.000	

(1) HEADER (2) JOBORDER (RETURN) > \*\* return \*\*

DATA CHANGE DESIRED (Y OR N) > N

ITEM ADDED TO DATA BASE

SYSTEM ITEM NUMBER = 615



#### 4.1.3 HOURS AND DOLLARS DATA CHANGES

When the user enters a carriage return at the prompt:  
'(1) HEADER (2) JOBORDER (RETURN) >', the following will be displayed:  
'DATA CHANGE DESIRED (Y OR N) >'. If the user enters a 'Y', four options will be available for changing the hours and dollars data: RATETABLE, SPREAD, MANUAL, or DELETE.

The RATETABLE option does a spread of hours and dollars computed from the total engineering hours and the M/ODC dollars (Material charges and Other Direct Charges) for the task of the retrieved record. The user must enter the total engineering hours, the M/ODC dollars, and the appropriate fiscal year. The total dollars and hours to be spread will be computed from the internal ratetable and will then be displayed at the terminal screen. The user must then enter the beginning month, beginning hours, and the beginning dollars for the spread. The user will be prompted for the last month and then the total dollars and hours computed by the system will be spread over the interval of months entered by the user. The user will then choose the type of spread that is to be performed, which is discussed in the following paragraph. It should be noted that if the task of the retrieved record is J, M, or R, running a ratetable spread on that record will automatically invoke the SPREAD option, as no computation will be performed.

In the SPREAD option, the user is prompted for the beginning month, hours, and dollars, and then for the last month, hours, and dollars. These hours and dollars may be spread normally, which is an even percentage distribution for all values over the interval of months, or abnormally, which allows the user to have a weighted distribution as desired for the first or second half of the interval of months. Note that the spread rounds off the given values for the most efficient proportioning of hours and dollars.

However, if an exact number of hours or dollars is needed on the last month, that month may be changed using the MANUAL option.

The MANUAL option allows the user to add, change, or delete a single month entry in the hours and dollars data for a retrieved record.

The DELETE option deletes all months, hours, and dollars for a retrieved record. The user will be asked to verify that deleting the monthly data is the correct option desired. A message will then be displayed indicating that the data has been deleted, and the user will be returned to the prompt for RATETABLE, SPREAD, MANUAL, or DELETE. This is not a recommended procedure.

The following example illustrates the MOD / REPLACE option with changes to the hours and dollars data and shows the SPREAD, MANUAL, and DELETE options. An abnormal spread is performed, and the last month of the data is manually changed to show the desired number of total hours. For security reasons there will be no example of the RATETABLE option.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE           2) STATUS           3) NOJOS
4) RNTM           5) SYSNUM           6) TITLE
7) MOD            8) CNT              9) REMARKS
10) NR            11) CR              12) RBK
13) PR            14) CONT            15) TASK
16) TASKAS        17) TASKSB          18) WAN
19) WACODE         20) COMPLETE        21) R.T.HRS
22) R.T.BOM        23) ACTBOM          24) TABLE
25) TOTHR          26) TOTDOL
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 615

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

DATE: WED, JUN 27 1984 STATUS:AUT J.O.S: 8 MONTHS: 1 SYS ITEM NO: 615

TITLE:TEST ENTRY FOR SAMPLE MOD / ADD

MOD: , , , CONTRACTOR:VOUGHT

REMRK:

NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:

RBK: PURCHASE REQUEST:

CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:Z SUBTASK: .

WORK AUTHORITY:3381 WA CODE:AE COMPLETED TASK:YES TABLE:SUST

R.T. HRS: 0 R.T. DOLLARS: 0

TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

MORE ? > \*\* return \*\*

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7200A	49004172700000483	0.000	6.271	100.000	0.000	0.000
		0.000	0.000	0.000	0.000	

MORE ? > \*\* return \*\*

MM	YR	CMAA	CUM EAC SPREAD		CUM ACTUALS		COMPLETION(EAC)	
			TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS
OCT	76		0	67500	0	67426	0	67426

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > 1

(1) ADD, (2) REPLACE (RETURN IF FINISHED) > 2

(1) HEADER (2) JOBORDER (RETURN) > \*\* return \*\*

DATA CHANGE DESIRED (Y OR N) > Y

(1) RATETABLE, (2) SPREAD , (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 4

OK TO DELETE MONTHLY DATA (Y OR N) > Y

DATA DELETED

(1) RATETABLE, (2) SPREAD , (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 2

ENTER MONTH AND YEAR FOR FIRST MONTH.

MMYY

AUG75

ENTER EAC SPREAD HOURS FOR FIRST MONTH.

NNNNNNNNNN

10

ENTER EAC SPREAD DOLLARS FOR FIRST MONTH.

NNNNNNNNNN

1000

ENTER MONTH AND YEAR FOR LAST MONTH.

MMYY

DEC76

ENTER EAC SPREAD HOURS FOR LAST MONTH.

NNNNNNNNNN

100

ENTER EAC SPREAD DOLLARS FOR LAST MONTH.

NNNNNNNNNN

77000

NORMAL SPREAD (Y - N) > N

ENTER THE 1ST HALF PERCENT FOR THE HOURS > 25

ENTER THE 1ST HALF PERCENT FOR THE DOLLARS > 20

AUG 75	10	1000	0	0	0	0
SEP 75	13	2900	0	0	0	0
OCT 75	16	4800	0	0	0	0
NOV 75	19	6700	0	0	0	0
DEC 75	22	8600	0	0	0	0
JAN 76	25	10500	0	0	0	0
FEB 76	28	12400	0	0	0	0
MAR 76	31	14300	0	0	0	0
APR 76	34	16200	0	0	0	0
MAY 76	42	23800	0	0	0	0
JUN 76	50	31400	0	0	0	0
JUL 76	58	39000	0	0	0	0
AUG 76	66	46600	0	0	0	0
SEP 76	74	54200	0	0	0	0
OCT 76	82	61800	0	0	0	0
NOV 76	90	69400	0	0	0	0
DEC 76	98	77000	0	0	0	0

MORE MODIFICATIONS (Y OR N) > Y

(1) RATETABLE, (2) SPREAD , (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 3

ENTER DATA VALUES. RETURN IF NO MORE  
TO DELETE MAKE CMAA EQUAL TO \*\*\*\*.

MMM-YY-CMAA-	CUM EAC SPREAD		CUM ACTUALS		EAC	
	HOURS -	DOLLARS -	HOURS -	DOLLARS -	HOURS -	DOLLARS
DEC 76	100	77000				
DEC 76	100	77000	0	0	0	0

ENTER DATA VALUES. RETURN IF NO MORE  
TO DELETE MAKE CMAA EQUAL TO \*\*\*\*.

MMM-YY-CMAA- ** return **	CUM EAC SPREAD		CUM ACTUALS		EAC	
	HOURS -	DOLLARS -	HOURS -	DOLLARS -	HOURS -	DOLLARS
0	0	0	0	0	0	0
AUG 75	10	1000	0	0	0	0
SEP 75	13	2900	0	0	0	0
OCT 75	16	4800	0	0	0	0
NOV 75	19	6700	0	0	0	0
DEC 75	22	8600	0	0	0	0
JAN 76	25	10500	0	0	0	0
FEB 76	28	12400	0	0	0	0
MAR 76	31	14300	0	0	0	0
APR 76	34	16200	0	0	0	0
MAY 76	42	23800	0	0	0	0
JUN 76	50	31400	0	0	0	0
JUL 76	58	39000	0	0	0	0
AUG 76	66	46600	0	0	0	0
SEP 76	74	54200	0	0	0	0
OCT 76	82	61800	0	0	0	0
NOV 76	90	69400	0	0	0	0
DEC 76	100	77000	0	0	0	0

MORE MODIFICATIONS (Y OR N) > N

#### 4.2 DELETE OPTION

It should be noted that the user must have special clearance in order to perform a record deletion in the Contract Analysis data base. If the user attempts to delete a record and is not cleared, the following will be displayed : 'SORRY, YOU ARE NOT VALIDATED TO PERFORM THIS FUNCTION'. If the user is cleared for deletion and enters the delete option, the user will be asked to verify that deleting this record from the data base is the correct option desired. The record will then be deleted, and a message verifying

that it has been deleted will be displayed. The user will then be returned to the program main menu. It should be noted that after a record has been deleted, it is a standard procedure for the data file to be resorted and for the balance sheet update to be run. Both of these operations are discussed under the update option in section 8.0 of this document. The following example illustrates the record delete option.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE          2) STATUS          3) NOJOS
4) RNTM          5) SYSNUM          6) TITLE
7) MOD           8) CNT              9) REMARKS
10) NR           11) CR              12) RBK
13) PR           14) CONT             15) TASK
16) TASKAS       17) TASKSB           18) WAN
19) WACODE       20) COMPLETE         21) R.T.HRS
22) R.T.BOM      23) ACTBOM           24) TABLE
25) TOTHR       26) TOTDOL
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 615

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

DATE: WED, JUN 27 1984 STATUS:AUT J.O.S: 8 MONTHS:17 SYS ITEM NO: 615  
TITLE:TEST ENTRY FOR SAMPLE MOD / ADD  
MOD: , , , CONTRACTOR:VOUGHT  
REMRK:  
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:  
RBK: PURCHASE REQUEST:  
CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:Z SUBTASK: .  
WORK AUTHORITY:3381 WA CODE:AE COMPLETED TASK:YES TABLE:SUST  
R.T. HRS: 0 R.T. DOLLARS: 0  
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

MORE ? > N

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > 4

OK TO DELETE THIS RECORD (Y OR N) > Y

RECORD 615 DELETED FROM DATA BASE

#### 4.3 SPOOL OPTION

The following is a an example of the terminal actions performed in retrieving and spooling an analysis record.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE          2) STATUS          3) NOJOS
4) RNTM          5) SYSNUM          6) TITLE
7) MOD           8) CNT              9) REMARKS
10) NR           11) CR              12) RBK
13) PR           14) CONT            15) TASK
16) TASKAS       17) TASKSB          18) WAN
19) WACODE        20) COMPLETE       21) R.T.HRS
22) R.T.BOM       23) ACTBOM          24) TABLE
25) TOTHR        26) TOTDOL
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 3

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

DATE: FRI, JUN 29 1984 STATUS:AUT J.O.S:10 MONTHS: 1 SYS ITEM NO: 3  
TITLE:PROGRAM MANAGEMENT  
MOD: , , , CONTRACTOR:VOUGHT  
REMRK:  
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:  
RBK: PURCHASE REQUEST:  
CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:A SUBTASK: .  
WORK AUTHORITY:3381 WA CODE:AB COMPLETED TASK:YES TABLE:SUST  
R.T. HRS: 0 R.T. DOLLARS: 0  
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

MORE ? > \*\* return \*\*

E6000A	49002026600000400	0.000	11.063	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7000A	49002027700000400	0.000	30.583	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6186A	49004080600000483	0.000	4.431	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6188A	49004160600000700	0.000	2.683	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6189A	49002020600000400	0.000	7.211	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E6191A	49002021600000400	0.000	6.876	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7193A	49002023700000400	0.000	14.537	0.000	0.000	0.000

		0.000	0.000	0.000	0.000	
E7194A	49002025700000400	0.000	6.767	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7196A	49002021700000400	0.000	9.578	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	
E7198A	49004172700000483	0.000	6.271	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	

MORE ? > \*\* return \*\*

MMM YR CMAA	CUM EAC SPREAD		CUM ACTUALS		COMPLETION(EAC)	
	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS
OCT 76	0	27100	0	27053	0	27053

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > 3

\*\*\*\* RECORD PUT INTO OUTPUT FILE \*\*\*\*

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > \*\* return \*\*

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 1

(0) START OVER

(1) LQP A - COMPUTER PAPER

(2) LQP B - SINGLE SHEET

(3) SCOUT SYSTEM PRINTER / PRO

ENTER OPTION NUMBER > 3

ENTER NUMBER OF COPIES (MAX 5) > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

A carriage return may be entered as a response for no output.



## 5.0 INPUT OPTION

When the Input option (option 2) on the Analysis main menu is invoked, the user must first enter the appropriate Work Authorization (WA) number and WA code for the data base record to be input. The user will then be prompted for the subsequent fields of the header section of the record. Next the user must choose the desired method of building the job orders: manual input or automatic build (which operates similar to the AUTO option discussed in section 4.1 of this document). After the header and job order sections of the record have been input, those sections of the record will be displayed at the terminal screen. The following prompt will then be displayed: '(1) RATEABLE, (2) SPREAD, (3) MANUAL, (4) DELETE (RETURN IF FINISHED) >'. This is displayed automatically in the input routine because the input record must have the initial set of hours and dollars data computed. After entering the desired option and the appropriate responses have been entered, the hours and dollars data will be displayed, the system item number of the input record will be displayed, and the user will be returned to the program main menu. The following example illustrates the input of a data record.

```
ENTER OPTION > 2

ENTER WA # & WA CODE OF NEW DATA BASE RECORD
!####!code!
3333 ZXY

ENTER HEADER DATA BETWEEN THE '!' MARKS
*****
TITLE
!                                     !
TEST ENTRY FOR SAMPLE OF INPUT MODE

*****
REMARKS
!                                     !
NONE
```

```
*****
NASA ENG.    CONT. ENG.    RBK    PURCHASE REQUEST
!           !           !           !           !
WINTERS
```

```
*****
TASK TSKSUB TOTAL-HRS.  ODC-MAT DOL.  ETC-ODC DOL.
! !!!   .   !           !           !           !
Z
```

```
*****
STATUS MOD          CONTRACTOR TOTAL HRS. TOTAL DOL.
!!  !!  ,  ,  ,  !           !           !           !
** return **
```

\*\*\* STATUS MUST BE "AUT" or "FUT" \*\*\* > AUT

\*\* CONTRACTOR MUST BE "LTV" or "VOUGHT" \*\* > LTV

JOB ORDERS BUILT BY: (1) MANUAL  
 (2) AUTOMATIC  
 RETURN IF FINISHED

ENTER OPTION # > 1

ENTER NUMBER OF JOB ORDERS (MAX 25) >2

```
*****
J. O.    ALL-%    77-%    78-%    79-%    80-%    81-%    82-%    83-%    84-%
!          !NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN
E7202G  50.000
```

JOB ORDER SUB-CODE (2 CHAR.) > \*\* return \*\*

```
*****
J. O.    ALL-%    77-%    78-%    79-%    80-%    81-%    82-%    83-%    84-%
!          !NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN!NNN.NNN
E7206H  50.000
```

JOB ORDER SUB-CODE (2 CHAR.) > G

DATE: WED, JUN 27 1984 STATUS:AUT J.O.S: 2 MONTHS: SYS ITEM NO: 615

TITLE:TEST ENTRY FOR SAMPLE OF INPUT MODE

MOD: , , , CONTRACTOR:LTV

REMRK:NONE

NASA RESPONSIBLE ENGR:WINTERS KTR RESPONSIBLE ENGR:

RBK: PURCHASE REQUEST:

CONTRACT/PURCHASE ORDER:NAS1-12500 TASK:Z SUBTASK: .

WORK AUTHORITY:3333 WA CODE:ZXY COMPLETED TASK:NO TABLE:MANL

R.T. HRS: 0 R.T. DOLLARS: 0

TOTAL AUT HOURS: 0 TOTAL AUT DOLLARS: 0 FEE: 0.000%

E7202G	49002023700000400	50.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	

E7206H G	49001014700000400	50.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	

(1) RATETABLE, (2) SPREAD , (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 1

TASK= Z

ENTER TOTAL ENGINEERING HOURS > 3

ENTER MATERIAL - ODC DOLLARS > 333

ENTER FISCAL YEAR OF RATES TO BE USED > 80

\*\*\*\*\*  
TOTAL DOLLARS = 0  
TOTAL HOURS = 3  
\*\*\*\*\*

ENTER MONTH AND YEAR FOR FIRST MONTH.

MMYY

JAN80

ENTER EAC SPREAD HOURS FOR FIRST MONTH.

NNNNNNNNNN

\*\* return \*\*

ENTER EAC SPREAD DOLLARS FOR FIRST MONTH.

NNNNNNNNNN

\*\* return \*\*

ENTER MONTH AND YEAR FOR LAST MONTH.

MMYY

JAN80

JAN 80	0	0	0	0	0	0
--------	---	---	---	---	---	---

ITEM ADDED TO DATA BASE

SYSTEM ITEM NUMBER = 615

It should be noted that after a record has been input it is a standard procedure for the data file to be resorted and for the balance sheet update to be run. Both of these operations are discussed under the update option in section 8.0 of this document.

## 6.0 BOOK PART OPTION

The following examples illustrate the Book Part option (option 3) on the main menu. The user should be cautioned that both of these options may be run when another user is currently in the analysis data base. Any listings might represent data that has been updated. Both options available under the Book Part option, the Entire record listing and the Brief listing, will be displayed below.

### 6.1 ENTIRE RECORD OPTION

There are two additional field names that may be used for retrieval in the Entire record option only: #27 and #28. Their descriptions are:

- 27) JOBORDER : JOB ORDER NO. (CAN BE USED ONLY DURING PARTIAL BOOKS)
- 28) PROGRAMNO : PROGRAM NUMBER (CAN BE USED ONLY DURING PARTIAL BOOKS)

The following example illustrates the Entire record option.

ENTER OPTION > 3

TYPE OF PARTIAL REPORT: (1) ENTIRE RECORD (2) BRIEF LISTING

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE           2) STATUS           3) NOJOS
4) RNTM           5) SYSNUM           6) TITLE
7) MOD            8) CNT              9) REMARKS
10) NR            11) CR              12) RBK
13) PR            14) CONT            15) TASK
16) TASKAS        17) TASKSB          18) WAN
19) WACODE         20) COMPLETE        21) R.T.HRS
22) R.T.BOM        23) ACTBOM          24) TABLE
25) TOTHR          26) TOTDOL          27) JOBORDER
28) PROGRAMNO
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15

ENTER VALUE > B

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

RECORD NO. 8  
RECORD NO. 9  
RECORD NO. 10  
RECORD NO. 11  
RECORD NO. 12  
RECORD NO. 13

6 ITEMS IN BOOK

(0) NO OUTPUT !!!  
(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

## 6.2 BRIEF LISTING OPTION

The following is a sample of the Brief listing option:

ENTER OPTION > 3

TYPE OF PARTIAL REPORT: (1) ENTIRE RECORD (2) BRIEF LISTING

ENTER OPTION > 2

ENTER FIELDS FOR SELECTION OF ITEMS THAT WILL APPEAR IN LIST REPORT

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

```
=====
1) DATE           2) STATUS           3) NOJOS
4) RNTM           5) SYSNUM           6) TITLE
7) MOD            8) CNT              9) REMARKS
10) NR            11) CR              12) RBK
13) PR            14) CONT            15) TASK
16) TASKAS        17) TASKSB          18) WAN
19) WACODE         20) COMPLETE        21) R.T.HRS
22) R.T.BOM        23) ACTBOM          24) TABLE
25) TOTHR          26) TOTDOL
```

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15

ENTER VALUE  
B

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

BEGINNING SEARCH

6 ITEMS FOUND

SORTED LISTING BY (1) SYSTEM NUMBER  
                  (2) SUB-TASK  
                  (3) WACODE

ENTER OPTION NUMBER > 3

SORTED BY NASA RESPONSIBLE ENGINEER (Y OR N) > Y

WACODE SORT NOW BEGINNING: PLEASE STAND BY

RECORDS FOUND AND SORTED FOR WACODE

ENGINEER SORT NOW BEGINNING: PLEASE STAND BY

RECORDS FOUND AND SORTED FOR ENGINEERS

ALL DONE

(0) NO OUTPUT !!!  
(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION    / DALLAS, TX

ENTER OPTION NUMBER > \*\* return \*\*

See Appendix A-1 of this document for an example of the printer  
output for the Book Part Brief option.

## 7.0 REPORT OPTION

The report generator menu for the Contract Analysis file is displayed as follows:

ENTER OPTION > 4

ENTER OPTION > REPORT

### FINANCIAL ANALYSIS REPORT GENERATOR

=====

- (1) TABLES ( FEES, RATES, SUSTAINING JO'S, PROGRAM NUMBERS, & TIME )
- (2) 533 REPORT ( CONTRACTUAL 533 FOR VUGHT CORPORATION, DALLAS, TEXAS )
- (3) POP'S ( POP1 OR POP2 REPORTS FOR CONTRACT 16200 - FISCAL YEAR )
- (4) PROGRAM COST ( COSTS BY FISCAL YEAR : PROGRAMS, SUB-JOB, AND W. A. )
- (5) PROGRAM HOUR ( HOURS BY FISCAL YEAR : PROGRAMS, SUB-JOB, AND W. A. )
- (6) PRORATION ( HOURLY, DOLLAR COSTS, & DOD REPORTS BY TASK & VEHICLE )
- (7) DISCREPANCY ( RETRIEVE CONFLICTS IN W.A. RECORDS FOR CONTRACT 16200 )
- (8) BALANCE SHEET ( NOTE : CONTRACT MUST HAVE EAC BALANCE SHEETS TO RUN )
- (9) W.A. STATUS ( CHECKS COMPLETED FIELD & STATUS DATE - DALLAS LETTER )
- (10) PROCESSING ( VEHICLE COST SUMMARY - NOTE: MAINLY FOR TASK H USE )
- (11) SUMMARIES ( ODC ACTUALS, TASK, W.A. & VARIANCE REPORTS FOR 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

The Contract Analysis report generator has multi-user capability. Any of the available reports may be run by more than one user simultaneously. Note that any listings, however, represent the data base as seen by the user running the report, and that the data may have been updated by another user.

The following sections contain illustrations and instructions for running each of the reports. It should be noted that entering a carriage return at the report generator menu will return the user to the Contract Selection menu shown in section 1.1 of this document.

## 7.1 TABLE REPORT

A report may be generated for the following tables in this option:

fee table, rate table, sustaining table, program number / job order table, and time table. It should be noted that the user must have the proper security clearance to run reports on the rate table and the time table.

The following sections contain examples which illustrate the terminal actions performed in running each of these table report options.

#### 7.1.1 FEE TABLE

The fee table contains contract numbers, tasks, sub-tasks, and percentage fees. The following is an example of the fee table report. See Appendix D-1 for an example of the report output format.

ENTER OPTION: 1

#### FINANCIAL ANALYSIS TABLES GENERATOR =====

- (1) FEE TABLE
- (2) RATE TABLE
- (3) SUSTAIN JO'S
- (4) PROGRAM NO'S
- (5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 1

EDIT

B

LOAD FEETBL

EDIT

FILE FEETABLE

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!



### 7.1.2 RATE TABLE

The rate table contains the task and percentage rates for hours and dollars. Each fiscal year has its own set of percentages. The table contains five (5) years worth of rates. The following is an example of the rate table report. See Appendix D-2 for an example of the report output format.

#### FINANCIAL ANALYSIS TABLES GENERATOR =====

- (1) FEE TABLE
- (2) RATE TABLE
- (3) SUSTAIN JO'S
- (4) PROGRAM NO'S
- (5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 2

EDIT

B

LOAD RATEC

EDIT

FILE RATEC

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

### 7.1.3 SUSTAINING JOB ORDERS TABLE

The sustaining job orders table contains all the job orders for each task and subtask combination. Each job order has a set of up to eight (8) percentages for fiscal year distribution. The following is an example of the

sustaining job orders table report. See Appendix D-3 for an example of the report output format.

FINANCIAL ANALYSIS TABLES GENERATOR  
=====

- (1) FEE TABLE
- (2) RATE TABLE
- (3) SUSTAIN JO'S
- (4) PROGRAM NO'S
- (5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 3

EDIT

B

LOAD SSCST

EDIT

FILE SUSTABLE

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

#### 7.1.4 PROGRAM NUMBERS TABLE

The program numbers table contains job orders and their associated program numbers. The following is an example of the program numbers table report. See Appendix D-4 for an example of the report output format.

FINANCIAL ANALYSIS TABLES GENERATOR  
=====

- (1) FEE TABLE
- (2) RATE TABLE
- (3) SUSTAIN JO'S
- (4) PROGRAM NO'S

#### (5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 4

EDIT

B

LOAD F.ANAL>PRJO

EDIT

FILE F.ANAL>PROJOTABLE

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

#### 7.1.5 TIME TABLE

The time table contains the starting and ending month and year, the contract fixed value, and the basic fee in thousands of dollars for each task. The following is an example of the time table report. See Appendix D-5 for an example of the report output format.

#### FINANCIAL ANALYSIS TABLES GENERATOR =====

- (1) FEE TABLE
- (2) RATE TABLE
- (3) SUSTAIN JO'S
- (4) PROGRAM NO'S
- (5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 5

EDIT

B

LOAD TIMETBL

EDIT

FILE TIMETABLE

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

FINANCIAL ANALYSIS TABLES GENERATOR  
=====

- (1) FEE TABLE
- (2) RATE TABLE
- (3) SUSTAIN JO'S
- (4) PROGRAM NO'S
- (5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: \*\* return \*\*

## 7.2 533 REPORT

The 533 report is a standardized contractor report used by the government to monitor management contracts. It displays dollar and hourly summaries according to Fixed Price Incentive, FPI, and Cost Plus Fixed Fee, CPFF, tasks. This report can generate one of four quarterly reports based on the current status date. The following status months produce quarterly reports:

September - 1st quarter  
December - 2nd quarter  
March - 3rd quarter  
June - 4th quarter

If a status month is chosen which does not generate a quarterly report, the following message will be displayed on the terminal screen:

\*\*\* 533 REPORT CANNOT BE GENERATED FOR STATUS MONTH OCT \*\*\*.

This report prompts the user for certain header data field values to be displayed at output time. The following is an example of a 533 report. See Appendix E for an example of each quarterly 533 report output format (E-1 for the 1st quarter, E-2 for the 2nd quarter, E-3 for the 3rd quarter, and E-4 for the 4th quarter).

ENTER OPTION > 2

ITEM # 4. FUND LIMITATION

\*\* ALL VALUES ARE BOGUS VALUES \*\*

FPI > 123456  
CPFF > 654321

ITEM # 5. BILLING

A. INVOICE AMTS BILLED

FPI > 98765  
CPFF > 56789

B. TOTAL PYTS REC'D

FPI > 3333333  
CPFF > 4444444

\*\*\* 533 REPORT GENERATION NOW BEGINNING ... PLEASE STAND BY \*\*\*

TASK A NOW BEING PROCESSED.

TASK B NOW BEING PROCESSED.

TASK C NOW BEING PROCESSED.

TASK D NOW BEING PROCESSED.

TASK E NOW BEING PROCESSED.

TASK F NOW BEING PROCESSED.

TASK G NOW BEING PROCESSED.

TASK H NOW BEING PROCESSED.

TASK J NOW BEING PROCESSED.

TASK J NOW BEING PROCESSED.

TASK L NOW BEING PROCESSED.

TASK M NOW BEING PROCESSED.

TASK N NOW BEING PROCESSED.

TASK P NOW BEING PROCESSED.

TASK R NOW BEING PROCESSED.

TASK T NOW BEING PROCESSED.

TASK V NOW BEING PROCESSED.

TASK W NOW BEING PROCESSED.

TASK X NOW BEING PROCESSED.

\*\*\* TABLE SUB-TOTALS & OUTPUT FILE FOR PRINTING NOW BEING BUILT \*\*\*

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 1

(0) START OVER

(1) LQP A - COMPUTER PAPER

(2) LQP B - SINGLE SHEET

(3) LQP G - DUAL SHEET

(4) SCOUT SYSTEM PRINTER / PRO

ENTER OPTION NUMBER > 4

ENTER NUMBER OF COPIES (MAX 5) > 1

OUTPUT SPOOLED TO PRINTER

### 7.3 POP'S REPORT

A POP1 report contains months for the first half of the year only, while a POP2 report contains only those months for the second half of the year. This report displays dollar summaries according to program assignments, such as 400 (NASA) and 493 (DOD). It should be noted that typing 'QUIT' at any point within the report routine will return the user to the previous menu. The following example illustrates the terminal actions per-

formed in running a POP report. See Appendix F for an example of each of the POP report output formats (F-1 for POP1 and F-2 for POP2).

ENTER OPTION: 3

Five digit contract: 16200

WHICH POP COST REPORT DO YOU DESIRE?

- (1) POP 1 (FIRST HALF OF FISCAL YEAR)
- (2) POP 2 (SECOND HALF OF FISCAL YEAR)
- (QUIT) to exit

--- ENTER OPTION ---> 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->

--- ENTER FISCAL YEAR ---> 85

----- MENU #1 -----

REPORT: 1. ONLY	BASED ON: 1. EAC'S	1. FEE	TASKS: 1. ALL
2. PLUS	2. ACT'S	2. NO FEE	2. CERTAIN

--- ENTER OPTIONS ---> 1 1 1 1

----- MENU #2 -----

STATUS: 1. ALL	RECORDS: 1. ALL	PROGNO: 1. ALL
2. AUT	2. MANUAL	2. CERTAIN
3. FUT	3. SUSTAIN	

--- ENTER OPTIONS ---> 1 1 1

----- MENU #3 -----

J.O.: (1) ALL	COMPLETED: (1) ALL
(2) CERTAIN	(2) YES
	(3) NO

--- ENTER OPTIONS ---> 1 1

- (1) COMPUTE REPORT WHILE I WAIT
- (2) SUBMIT AS A FAST PHANTOM JOB
- (3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 2

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

- (0) WRONG OFFICE SITE, START OVER
- (1) LQP A - COMPUTER PAPER
- (2) LQP B - SINGLE SHEET
- (3) LQP G - DUAL SHEET
- (4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

Your report is being calculated by Phantom #70

#### 7.4 PROGRAM COST

The Contract Analysis cost report menu appears as follows:

ENTER OPTION: 4

##### FINANCIAL ANALYSIS COST REPORT GENERATOR =====

- (1) PROGRAM REPORT ( EACH TASK FOR CONTRACT 16200 )
- (2) SUB-JOBORDER REPORT ( EACH TASK FOR CONTRACT 16200 )
- (3) W. A. REPORT ( EACH W.A. FOR CONTRACT 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

It should be noted that typing 'QUIT' at any point within the cost report routines will return the user to the previous menu.

##### 7.4.1 PROGRAM REPORT

The Program cost report displays dollar summaries by fiscal year for each task and program assignment, such as 400 (NASA) and 492 (DOD).

The following is an example of the Program cost report. See Appendix G-1 for an example of the Program cost report output format.



ENTER OPTION: 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->  
\*\* return \*\*

--- BEGINNING AND ENDING FISCAL YEARS (82-86) ---> \*\* return \*\*

----- MENU #1 -----

REPORT: 1. ONLY	BASED ON: 1. EAC'S	1. FEE	TASKS: 1. ALL
2. PLUS	2. ACT'S	2. NO FEE	2. CERTAIN

--- ENTER OPTIONS ---> 1 1 1 2

ENTER A BLANK WHEN DONE

--- ENTER TASK ---> R

--- ENTER TASK ---> T

--- ENTER TASK ---> \*\* return \*\*

----- MENU #2 -----

STATUS: 1. ALL	RECORDS: 1. ALL	PROGNO: 1. ALL
2. AUT	2. MANUAL	2. CERTAIN
3. FUT	3. SUSTAIN	

--- ENTER OPTIONS ---> 1 1 1

----- MENU #3 -----

J.O.: (1) ALL	COMPLETED: (1) ALL
(2) CERTAIN	(2) YES
	(3) NO

--- ENTER OPTIONS ---> 2 1

--- ENTER J.O. NUMBER (\*\* for all phases) ---> E8

(1) ENTIRE COST REPORT - ALL FISCAL YEARS  
(2) SUMMARY TOTALS ONLY - LAST PAGES OF REPORT

--- ENTER OPTION ---> 2

(1) COMPUTE REPORT WHILE I WAIT  
(2) SUBMIT AS A FAST PHANTOM JOB  
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

CONTRACT: NAS1-16200

COST REPORT BY FISCAL YEAR  
PROGRAM REPORT  
05 FISCAL YEARS 82-86 (ALL)  
BASED ON EAC'S  
ALL RECORDS

TASK(S) R T  
REPORT WITH FEE  
ALL PROGRAMS  
J.O.: E8 VEH: 0 ONLY  
ALL W.A.'S  
DATE COMPUTED:  
FRI, SEP 28 1984 01:08:02 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

25 RECORDS COMPUTED.  
50 RECORDS COMPUTED.  
75 RECORDS COMPUTED.  
100 RECORDS COMPUTED.  
125 RECORDS COMPUTED.  
150 RECORDS COMPUTED.  
175 RECORDS COMPUTED.  
200 RECORDS COMPUTED.  
225 RECORDS COMPUTED.  
250 RECORDS COMPUTED.

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

- (0) WRONG OFFICE SITE, START OVER
- (1) LQP A - COMPUTER PAPER
- (2) LQP B - SINGLE SHEET
- (3) LQP G - DUAL SHEET
- (4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

OUTPUT SPOOLED TO PRINTER: BOOK.840928.130802.T\$

#### FINANCIAL ANALYSIS COST REPORT GENERATOR

=====

- (1) PROGRAM REPORT ( EACH TASK FOR CONTRACT 16200 )
- (2) SUB-JOBORDER REPORT ( EACH TASK FOR CONTRACT 16200 )
- (3) W. A. REPORT ( EACH W.A. FOR CONTRACT 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: \*\* return \*\*

#### 7.4.2 SUB-JOB ORDER REPORT

The Sub-job order cost report displays dollar summaries by fiscal year for each sub-job order, and program assignments, such as 400 (NASA) and 493 (DOD). See section 7.4.1 of this document, Program report, for an example of the user options required for executing this report. See Appendix G-2 for an example of the Sub-job order cost report output format.

#### 7.4.3 W.A. REPORT

The Work Authorization (W.A.) cost report displays dollar summaries by fiscal year for each W.A. and program assignment, such as 400 (NASA) and 493 (DOD). The following is an example of the W.A. cost report. See Appendix G-3 for an example of the Work Authorization cost report output format.

ENTER STATUS MONTH NUMBER & YEAR  
!MOIYR! (BLANK ENTRY FOR CURRENT DATE)

ENTER BEGINNING AND ENDING FYS.  
NN NN  
82 86

ENTER MENU #1 OPTION:

(1)	WA NUMBER: ALL	WITH FEE	ALL
(2)	WA NUMBER: ALL	WITH FEE	MANUAL
(3)	WA NUMBER: ALL	WITH FEE	SUSTAIN
(4)	WA NUMBER: ALL	NO FEE	ALL
(5)	WA NUMBER: ALL	NO FEE	MANUAL
(6)	WA NUMBER: ALL	NO FEE	SUSTAIN
(7)	WA NUMBER: CERTAIN	WITH FEE	ALL
(8)	WA NUMBER: CERTAIN	WITH FEE	MANUAL
(9)	WA NUMBER: CERTAIN	WITH FEE	SUSTAIN
(10)	WA NUMBER: CERTAIN	NO FEE	ALL
(11)	WA NUMBER: CERTAIN	NO FEE	MANUAL
(12)	WA NUMBER: CERTAIN	NO FEE	SUSTAIN

10

ENTER W.A. NUMBER OR ALL  
NNNN  
3008

ENTER MENU #2 OPTION:

(1)	TASK: ALL	PROGNO: ALL	J.O.: ALL
(2)	TASK: ALL	PROGNO: ALL	J.O.: CERTAIN

(3)	TASK: ALL	PROGNO: CERTAIN	J.O.: ALL
(4)	TASK: ALL	PROGNO: CERTAIN	J.O.: CERTAIN
(5)	TASK: CERTAIN	PROGNO: ALL	J.O.: ALL
(6)	TASK: CERTAIN	PROGNO: ALL	J.O.: CERTAIN
(7)	TASK: CERTAIN	PROGNO: CERTAIN	J.O.: ALL
(8)	TASK: CERTAIN	PROGNO: CERTAIN	J.O.: CERTAIN

5

ENTER TASK

R

ENTER MENU #3 OPTION:

(1)	STATUS: ALL	COMPLETE: ALL
(2)	STATUS: ALL	COMPLETE: YES
(3)	STATUS: ALL	COMPLETE: NO
(4)	STATUS: FUT	COMPLETE: ALL
(5)	STATUS: FUT	COMPLETE: YES
(6)	STATUS: FUT	COMPLETE: NO
(7)	STATUS: AUT	COMPLETE: ALL
(8)	STATUS: AUT	COMPLETE: YES
(9)	STATUS: AUT	COMPLETE: NO

1

25 RECORDS COMPUTED.  
50 RECORDS COMPUTED.  
75 RECORDS COMPUTED.  
100 RECORDS COMPUTED.  
125 RECORDS COMPUTED.  
150 RECORDS COMPUTED.  
175 RECORDS COMPUTED.  
200 RECORDS COMPUTED.  
225 RECORDS COMPUTED.  
250 RECORDS COMPUTED.  
275 RECORDS COMPUTED.

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

## 7.5 PROGRAM HOUR

The Contract Analysis file hour report menu appears as follows:

ENTER OPTION: 5

FINANCIAL ANALYSIS HOUR REPORT GENERATOR

=====

(1) PROGRAM REPORT ( EACH TASK FOR CONTRACT 16200 )

- (2) SUB-JOBORDER REPORT ( EACH TASK FOR CONTRACT 16200 )
- (3) W. A. REPORT ( EACH W.A. FOR CONTRACT 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

#### 7.5.1 PROGRAM REPORT

The Program hourly report displays hourly summaries by fiscal year for each task and program assignment, such as 400 (NASA) and 492 (DOD).

The following is an example of the Program hour report. See Appendix H-1 for an example of the Program hourly report output format.

ENTER OPTION: 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->  
\*\* return \*\*

--- BEGINNING AND ENDING FISCAL YEARS (82-86) ---> \*\* return \*\*

----- MENU #1 -----

REPORT: 1. ONLY	BASED ON: 1. EAC'S	TASKS: 1. ALL
2. PLUS	2. ACT'S	2. CERTAIN

--- ENTER OPTIONS ---> 1 2 2

ENTER A BLANK WHEN DONE

--- ENTER TASK ---> A

--- ENTER TASK ---> \*\* return \*\*

----- MENU #2 -----

STATUS: 1. ALL	RECORDS: 1. ALL	PROGNO: 1. ALL
2. AUT	2. MANUAL	2. CERTAIN
3. FUT	3. SUSTAIN	

--- ENTER OPTIONS ---> 1 1 2

ENTER PROGRAM NUMBERS (BLANK FOR ALL)

--- NNNNNNNNNNNNNNNNNNN --->

---> 400

----- MENU #3 -----

J.O.: (1) ALL                      COMPLETED: (1) ALL  
          (2) CERTAIN                      (2) YES  
  (3) NO

--- ENTER OPTIONS ---> 1 2

(1) ENTIRE HOURS REPORT - ALL FISCAL YEARS  
(2) SUMMARY TOTALS ONLY - LAST PAGES OF REPORT

--- ENTER OPTION ---> 2

(1) COMPUTE REPORT WHILE I WAIT  
(2) SUBMIT AS A FAST PHANTOM JOB  
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 2

(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION / DALLAS, TX  
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 2

(0) WRONG OFFICE SITE, START OVER  
(1) LQP S - SINGLE SHEET  
(2) LQP T - COMPUTER PAPER  
(3) DALLAS SYSTEM PRINTER / W

--- ENTER OPTION ---> 3

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

[Count Phantoms: Rev 19.2.7]

Your report is being calculated by Phantom #64

FINANCIAL ANALYSIS HOUR REPORT GENERATOR  
=====

(1) PROGRAM            REPORT ( EACH TASK FOR CONTRACT 16200 )  
(2) SUB-JOBORDER REPORT ( EACH TASK FOR CONTRACT 16200 )  
(3) W. A.            REPORT ( EACH W.A. FOR CONTRACT 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: \*\* return \*\*

#### 7.5.2 SUB-JOB ORDER REPORT

The Sub-job order hourly report displays hourly summaries for fiscal

year for each sub-job order and program assignment, such as 400 (NASA) and 493 (DOD). See section 7.5.1 of this document, Program report, for an example of the user options required to execute this report. See Appendix H-2 for an example of the Sub-job order hourly report output format.

### 7.5.3 W.A. REPORT

The Work Authorization (W.A.) hourly report displays hourly summaries by fiscal year for each W.A. and program assignment, such as 400 (NASA) and 493 (DOD). The following is an example of the W.A. hourly report. See Appendix H-3 for an example of the Work Authorization hourly report output format.

ENTER STATUS MONTH NUMBER & YEAR  
!MO!YR! (BLANK ENTRY FOR CURRENT DATE)

ENTER BEGINNING AND ENDING FYS.  
NN NN  
82 85

ENTER MENU #1 OPTION:

- |     |                    |         |
|-----|--------------------|---------|
| (1) | WA NUMBER: ALL     | ALL     |
| (2) | WA NUMBER: ALL     | MANUAL  |
| (3) | WA NUMBER: ALL     | SUSTAIN |
| (4) | WA NUMBER: CERTAIN | ALL     |
| (5) | WA NUMBER: CERTAIN | MANUAL  |
| (6) | WA NUMBER: CERTAIN | SUSTAIN |

1

ENTER MENU #2 OPTION:

- |     |               |                 |               |
|-----|---------------|-----------------|---------------|
| (1) | TASK: ALL     | PROGNO: ALL     | J.O.: ALL     |
| (2) | TASK: ALL     | PROGNO: ALL     | J.O.: CERTAIN |
| (3) | TASK: ALL     | PROGNO: CERTAIN | J.O.: ALL     |
| (4) | TASK: ALL     | PROGNO: CERTAIN | J.O.: CERTAIN |
| (5) | TASK: CERTAIN | PROGNO: ALL     | J.O.: ALL     |
| (6) | TASK: CERTAIN | PROGNO: ALL     | J.O.: CERTAIN |
| (7) | TASK: CERTAIN | PROGNO: CERTAIN | J.O.: ALL     |
| (8) | TASK: CERTAIN | PROGNO: CERTAIN | J.O.: CERTAIN |

7

ENTER TASK  
R

ENTER PROGRAM NUMBER (BLANK FOR ALL)  
NNNNNNNNNNNNNNNNNNNN  
493

ENTER MENU #3 OPTION:

- |                 |               |
|-----------------|---------------|
| (1) STATUS: ALL | COMPLETE: ALL |
| (2) STATUS: ALL | COMPLETE: YES |
| (3) STATUS: ALL | COMPLETE: NO  |
| (4) STATUS: FUT | COMPLETE: ALL |
| (5) STATUS: FUT | COMPLETE: YES |
| (6) STATUS: FUT | COMPLETE: NO  |
| (7) STATUS: AUT | COMPLETE: ALL |
| (8) STATUS: AUT | COMPLETE: YES |
| (9) STATUS: AUT | COMPLETE: NO  |

3

25 RECORDS COMPUTED.  
50 RECORDS COMPUTED.  
75 RECORDS COMPUTED.  
100 RECORDS COMPUTED.  
125 RECORDS COMPUTED.  
150 RECORDS COMPUTED.  
175 RECORDS COMPUTED.  
200 RECORDS COMPUTED.  
225 RECORDS COMPUTED.  
250 RECORDS COMPUTED.  
275 RECORDS COMPUTED.

(0) NO OUTPUT !!!

- (1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

## 7.6 PRORATION REPORT

The Contract Analysis proration report menu appears as follows:

ENTER OPTION: 6

FINANCIAL ANALYSIS PRORATION REPORT GENERATOR  
=====

- (1) HOURLY REPORT ( REGULAR, SPECIAL R, OR SUB-JOBORDER FOR CONTRACT 16200 )  
(2) DOLLAR REPORT ( REGULAR, SPECIAL R, OR SUB-JOBORDER FOR CONTRACT 16200 )  
(3) DOD REPORT ( SPECIAL PRORATION FOR MULTI-CONTRACTUAL DATA )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:



It should be noted that typing 'QUIT' at any point in the proration report routines will return the user to the previous menu.

#### 7.6.1 HOURLY REPORT

The proration hourly report displays hourly data by vehicle, phase, and program. There are three (3) main options for report formats:

- (1) Regular - showing tasks by mod
- (2) Special R - showing task R only by subtask number
- (3) Subjoborder - showing each task by joborder alpha-subtask.

The following is an example of the proration hourly report. See Appendix I for an example of each proration hourly report output format (I-1 for Regular, I-2 for Special R Subtask, and I-3 for Sub-job Order).

ENTER OPTION: 1

WHICH PRORATION OF HOURS REPORT DO YOU DESIRE?

- (1) REGULAR
- (2) SPECIAL R SUBTASK
- (3) SUB-JOBORDER
- (QUIT) to exit

--- ENTER OPTION ---> 2

\*\*\* NOTE: TASK R IS AUTOMATIC - NO SELECTION NEEDED.

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->  
\*\* return \*\*

----- MENU #1 -----

REPORT: 1. ONLY            BASED ON: 1. EAC'S  
         2. PLUS            2. ACT'S

--- ENTER OPTIONS ---> 1 2

----- MENU #2 -----

STATUS: 1. ALL      RECORDS: 1. ALL            PROGNO: 1. ALL  
         2. AUT            2. MANUAL            2. CERTAIN  
         3. FUT            3. SUSTAIN

--- ENTER OPTIONS ---> 1 1 1

----- MENU #3 -----

J.O.: (1) ALL                      COMPLETED: (1) ALL  
          (2) CERTAIN                      (2) YES  
  (3) NO

--- ENTER OPTIONS ---> 1 1

- (1) COMPUTE REPORT WHILE I WAIT
- (2) SUBMIT AS A FAST PHANTOM JOB
- (3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 2

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

- (0) WRONG OFFICE SITE, START OVER
- (1) LQP A - COMPUTER PAPER
- (2) LQP B - SINGLE SHEET
- (3) LQP G - DUAL SHEET
- (4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 1

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

[Count Phantoms: Rev 19.2.7]

Your report is being calculated by Phantom #67

FINANCIAL ANALYSIS PRORATION REPORT GENERATOR

=====

- (1) HOURLY REPORT ( REGULAR, SPECIAL R, OR SUB-JOBORDER FOR CONTRACT 16200 )
- (2) DOLLAR REPORT ( REGULAR, SPECIAL R, OR SUB-JOBORDER FOR CONTRACT 16200 )
- (3) DOD REPORT ( SPECIAL PRORATION FOR MULTI-CONTRACTUAL DATA )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: \*\* return \*\*

## 7.6.2 DOLLAR REPORT

The cost proration report displays dollar data by vehicle, phase, and program. There are three (3) main options for report formats:

- (1) Regular - showing tasks by mod

- (2) Special R - showing task R only by subtask number
- (3) Subjoborder - showing each task by joborder alpha-subtask.

The following is an example of the proration dollar report.  
See Appendix J for an example of each proration of costs report output format  
(J-1 for Regular, J-2 for Special R Subtask, and J-3 for Sub-job Order).

ENTER OPTION: 2

WHICH PRORATION OF COST REPORT DO YOU DESIRE?

- (1) REGULAR
- (2) SPECIAL R SUBTASK
- (3) SUB-JOBORDER
- (QUIT) to exit

--- ENTER OPTION ---> 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->  
\*\* return \*\*

----- MENU #1 -----

REPORT: 1. ONLY	BASED ON: 1. EAC'S	1. FEE	TASKS: 1. ALL
2. PLUS	2. ACT'S	2. NO FEE	2. CERTAIN

--- ENTER OPTIONS ---> 1 1 1 2

ENTER A BLANK WHEN DONE

--- ENTER TASK ---> R  
--- ENTER TASK ---> M  
--- ENTER TASK ---> J  
--- ENTER TASK ---> E  
--- ENTER TASK ---> \*\* return \*\*

----- MENU #2 -----

STATUS: 1. ALL	RECORDS: 1. ALL	PROGNO: 1. ALL
2. AUT	2. MANUAL	2. CERTAIN
3. FUT	3. SUSTAIN	

--- ENTER OPTIONS ---> 1 2 1

----- MENU #3 -----

J.O.: (1) ALL	COMPLETED: (1) ALL
(2) CERTAIN	(2) YES
	(3) NO

--- ENTER OPTIONS ---> 1 3

- (1) COMPUTE REPORT WHILE I WAIT
- (2) SUBMIT AS A FAST PHANTOM JOB
- (3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 3

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

- (0) WRONG OFFICE SITE, START OVER
- (1) LQP A - COMPUTER PAPER
- (2) LQP B - SINGLE SHEET
- (3) LQP G - DUAL SHEET
- (4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

[Count Phantoms: Rev 19.2.7]

Your report is being calculated by a slow batch job

### 7.6.3 DOD REPORT

The Department of Defense, DOD, proration of costs report displays dollar data by vehicle, phase, and program for multiple contracts on each task and sub-joborder assignment. The following is the DOD proration of costs report menu. Each of the report options is discussed in the following sections.

ENTER OPTION: 3

#### FINANCIAL ANALYSIS DOD REPORT GENERATOR

=====

- (1) HARDWARE COSTS REPORT ( BY CONTRACT , SUB-JOB , & VEHICLE )
- (2) MISSION COSTS REPORT ( BY CONTRACT , SUB-JOB , & VEHICLE )
- (3) ANNUAL COSTS REPORT ( BY CONTRACT , SUB-JOB , FISCAL YR )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

#### 7.6.3.1 HARDWARE COSTS REPORT

The DOD Hardware Costs report displays costs for multiple contracts by each hardware task and sub-joborder assignment for DOD vehicles only. A subtotal summary is given for each branch of the Department of Defense: ITV, Air Force, P83, and Navy. The following is an example of the DOD Hardware Costs report. See Appendix K-1 for an example of the Hardware Costs report output format.

VEHICLES: 1. ALL  
          2. CERTAIN

--- ENTER OPTIONS ---> 2

--- ENTER VEHICLE ---> 198

\*\*\*\* ERROR \*\*\*\* 198 IS NOT A DOD VEHICLE

--- ENTER VEHICLE ---> 199

- (1) COMPUTE REPORT WHILE I WAIT
- (2) SUBMIT AS A FAST PHANTOM JOB
- (3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

DOD HARDWARE COST REPORT

TASK(S) 199

REPORT WITH FEE

DATE COMPUTED:

TUE, MAY 28 1985 01:08:02 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

CONTRACT: NAS1-16200

50 RECORDS COMPUTED.  
100 RECORDS COMPUTED.  
150 RECORDS COMPUTED.  
200 RECORDS COMPUTED.  
250 RECORDS COMPUTED.

CONTRACT: NAS1-15000

300 RECORDS COMPUTED.  
350 RECORDS COMPUTED.

800 RECORDS COMPUTED.

ETC. (OTHER CONTRACTS)

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

- (0) WRONG OFFICE SITE, START OVER
- (1) LQP A - COMPUTER PAPER
- (2) LQP B - SINGLE SHEET
- (3) LQP G - DUAL SHEET
- (4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

#### 7.6.3.2 MISSION COSTS REPORT

The DOD Mission Costs report displays costs for multiple contracts by each mission task and sub-joborder assignment for DOD vehicles only. A subtotal summary is given for each branch of the Department of Defense: ITV, Air Force, P83, and Navy. The following is an example of the DOD Mission Costs report. See Appendix K-2 for an example of the Mission Costs report output format.

VEHICLES: 1. ALL  
          2. CERTAIN

--- ENTER OPTIONS ---> 1

- (1) COMPUTE REPORT WHILE I WAIT
- (2) SUBMIT AS A FAST PHANTOM JOB
- (3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

DOD MISSION COST REPORT  
TASK(S) ALL  
REPORT WITH FEE

DATE COMPUTED:  
TUE, MAY 28 1985 01:08:02 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

CONTRACT: NAS1-16200  
50 RECORDS COMPUTED.  
100 RECORDS COMPUTED.  
150 RECORDS COMPUTED.  
200 RECORDS COMPUTED.  
250 RECORDS COMPUTED.

CONTRACT: NAS1-15000  
300 RECORDS COMPUTED.  
350 RECORDS COMPUTED.  
.  
.  
.  
800 RECORDS COMPUTED.

ETC. (OTHER CONTRACTS)

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

- (0) WRONG OFFICE SITE, START OVER
- (1) LQP A - COMPUTER PAPER
- (2) LQP B - SINGLE SHEET
- (3) LQP G - DUAL SHEET
- (4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

#### 7.6.3.3 ANNUAL COSTS REPORT

The DOD Annual Costs report displays costs for multiple contracts by each task and sub-joborder assignment which are not classified as hardware or mission type. The report provides fiscal year costs with subtotal summaries by each branch of the Department of Defense: ITV, Air Force, P83, and Navy. The following is an example of the DOD Annual Costs report. See Appendix K-3 for an example of the Annual Costs report output format.

--- BEGINNING AND ENDING FISCAL YEARS (74-88) ---> \*\* return \*\*

- (1) COMPUTE REPORT WHILE I WAIT
- (2) SUBMIT AS A FAST PHANTOM JOB
- (3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

DOD ANNUAL COST REPORT  
15 FISCAL YEARS 74-88 (ALL)  
REPORT WITH FEE  
DATE COMPUTED:  
TUE, MAY 28 1985 01:08:02 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

CONTRACT: NAS1-16200  
50 RECORDS COMPUTED.  
100 RECORDS COMPUTED.  
150 RECORDS COMPUTED.  
200 RECORDS COMPUTED.  
250 RECORDS COMPUTED.

CONTRACT: NAS1-15000  
300 RECORDS COMPUTED.  
350 RECORDS COMPUTED.  
400 RECORDS COMPUTED.  
450 RECORDS COMPUTED.  
500 RECORDS COMPUTED.  
.  
.  
.  
800 RECORDS COMPUTED.

ETC. (OTHER CONTRACTS)

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

- (0) WRONG OFFICE SITE, START OVER
- (1) LQP A - COMPUTER PAPER
- (2) LQP B - SINGLE SHEET
- (3) LQP G - DUAL SHEET
- (4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1



## 7.7 DISCREPANCY REPORT

The Discrepancy report searches the financial data base for a wide range of errors and irregularities, including records which are in overrun condition. Records found are formatted for output to the printer in the same fashion as in an Entire Record (see Appendix C-1 for an example of an Entire Record Format).

The following example illustrates the terminal actions performed in running a Discrepancy report.

ENTER OPTION: 7

DISCREPANCY REPORT GENERATOR FOR CONTRACT NAS1-16200

SEARCH NOW BEGINNING - STAND BY.

RECORD NO.	22	FOUND FOR SPOOL
RECORD NO.	23	FOUND FOR SPOOL
RECORD NO.	27	FOUND FOR SPOOL
RECORD NO.	32	FOUND FOR SPOOL
RECORD NO.	33	FOUND FOR SPOOL
RECORD NO.	48	FOUND FOR SPOOL
RECORD NO.	54	FOUND FOR SPOOL
RECORD NO.	72	FOUND FOR SPOOL
RECORD NO.	245	FOUND FOR SPOOL

9 RECORDS FOUND WITH DISCREPANCIES.

(0) NO OUTPUT !!!  
(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

## 7.8 BALANCE SHEET REPORT

The Balance Sheet report displays the authorized and estimate to complete dollars and hours for each task. It should be noted that a contract must have EAC balance sheet records within its data base file in order to execute the Balance Sheet report.

The following example illustrates the terminal actions performed in running a Balance Sheet report. See Appendix L-1 for an example of the Balance Sheet report output format.

ENTER OPTION: 8

JUN 84

30 RECORDS COMPUTED  
60 RECORDS COMPUTED  
90 RECORDS COMPUTED  
120 RECORDS COMPUTED  
150 RECORDS COMPUTED  
180 RECORDS COMPUTED  
210 RECORDS COMPUTED  
240 RECORDS COMPUTED

(0) NO OUTPUT !!!  
(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

## 7.9 W.A. STATUS REPORT

The Work Authorization Status report searches the financial data base for open records which do not have the status month or the current month. These records are typically in need of extending the time of performance or closing.

The following example illustrates the terminal actions performed in running a W.A. Status report. See Appendix M-1 for an example of the Work

Authorization Status report output format.

ENTER OPTION: 9

SEARCH IN PROGRESS - PLEASE STAND BY

50 RECORDS COMPUTED.  
JUL 84    SYS NO=    76  
JUL 84    SYS NO=    80  
100 RECORDS COMPUTED.  
JUL 84    SYS NO=  138  
150 RECORDS COMPUTED.  
200 RECORDS COMPUTED.  
250 RECORDS COMPUTED.

(0) NO OUTPUT !!!  
(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION    / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

#### 7.10 PROCESSING REPORT

The Processing report computes the sustaining job order percents for each fiscal year. This computation is usually based upon task H, but can be run on any contract task.

The following example illustrates the terminal actions performed in running a Processing report. See Appendix N-1 for an example of the Processing report output format.

ENTER OPTION: 10

ENTER STATUS MONTH & YEAR

MM YY

06 84

REPORT BASED ON EAC        (EAC)  
                         ACTUALS    (ACT)

ACT

ENTER FEE OPTION (YES OR NO)  
NO

ENTER JOB ORDER TASK  
H

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

50 RECORDS COMPUTED.

100 RECORDS COMPUTED.

RECORD NO. = 119

RECORD NO. = 120

RECORD NO. = 121

RECORD NO. = 122

RECORD NO. = 123

RECORD NO. = 124

RECORD NO. = 125

RECORD NO. = 126

RECORD NO. = 127

RECORD NO. = 128

RECORD NO. = 129

RECORD NO. = 130

RECORD NO. = 131

RECORD NO. = 132

RECORD NO. = 133

RECORD NO. = 136

RECORD NO. = 139

RECORD NO. = 140

RECORD NO. = 141

RECORD NO. = 142

RECORD NO. = 144

RECORD NO. = 146

RECORD NO. = 147

150 RECORDS COMPUTED.

200 RECORDS COMPUTED.

RECORD NO. = 209

RECORD NO. = 217

RECORD NO. = 229

RECORD NO. = 230

250 RECORDS COMPUTED.

RECORD NO. = 256

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

## 7.11 SUMMARY REPORT

The Contract Analysis summary report menu appears as follows:

ENTER OPTION: 10

### FINANCIAL ANALYSIS SUMMARY REPORT GENERATOR

=====

- (1) ACTUAL REPORT ( ACTUAL ODC-MATERIAL DOLLAR SUMMARY FOR CONTRACT 16200 )
- (2) TASK REPORT ( NOTE: MUST HAVE EAC BALANCE SHEETS FOR CONTRACT 16200 )
- (3) W. A. REPORT ( ONLY OPEN WA'S SORTED BY ENGINEER FOR CONTRACT 16200 )
- (4) VARIANCE REPT ( NOTE: MUST HAVE EAC BALANCE SHEETS FOR CONTRACT 16200 )
- (5) YEARLY REPORT ( DOLLARS/HOURS SUMMARY BY FISCAL/CALENDAR YR FOR 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

#### 7.11.1 ACTUAL REPORT

The Actual summary report computes the total Actual ODC-Material dollars for all tasks or any individual selected task.

The following is an example of the Actual summary report. See Appendix O-1 for an example of the Actual summary report output format.

ENTER OPTION: 1

ENTER TASK OR ALL  
ALL

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

#### 7.11.2 TASK REPORT

The Task summary report displays all committed and authorized dollars and hours with estimates to complete by percentage for each task.

It should be noted that the contract must have EAC balance sheet records within its data base file in order to execute the Task summary report. The following is an example of this report. See Appendix 0-2 for an example of the Task Summary report output format.

ENTER OPTION: 2

ENTER TASK OR ALL OR BLANK WHEN FINISHED  
ALL

TASK A NOW WORKING

TASK B NOW WORKING

TASK C NOW WORKING

TASK D NOW WORKING

TASK E NOW WORKING

TASK F NOW WORKING

TASK G NOW WORKING

TASK H NOW WORKING

TASK J NOW WORKING

TASK J NOW WORKING

TASK L NOW WORKING

TASK M NOW WORKING

TASK N NOW WORKING

TASK P NOW WORKING

TASK R NOW WORKING

TASK T NOW WORKING

TASK V NOW WORKING

TASK W NOW WORKING

TASK X NOW WORKING

OUTPUT FORMATTING IN PROGRESS - PLEASE STAND BY

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

### 7.11.3 W.A. REPORT

The Work Authorization summary report displays all open W.A.'s for each responsible engineer with all budgeted, actual, and estimate to complete dollars and hours. An option is given for a Book of W.A.'s for each engineer in addition to the summary.

The following is an example of the W.A. summary report. See Appendix 0-3 for an example of the Work Authorization summary report output format.

ENTER OPTION: 3

ENTER TASK OR ALL  
ALL

ENTER RESPONSIBLE ENGINEER OR ALL  
ALL

68 RECORDS FOUND FOR W.A. SUMMARY REPORT

WA SUMMARY REPORT WITH OR WITHOUT BOOK OF RECORDS  
( WITH OR OUT )  
WITH

OUTPUT FORMATTING IN PROGRESS - PLEASE STAND BY

BOOK LISTING OF RECORDS SHOULD BE SPOOLED TO SYSTEM PRINTER

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

# BRIEF LISTING OF RECORDS BY ENGINEER

- (0) NO OUTPUT !!!
- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!

## 7.11.4 VARIANCE REPORT

The Variance report displays all committed and contract values on dollars and hours by percentage for each task.

It should be noted that the contract must have EAC balance sheet records within its data base file in order to execute the Variance summary report. The following is an example of this report. See Appendix O-4 for an example of the Variance summary report output format.

ENTER OPTION: 4

ENTER TASK OR ALL OR BLANK WHEN FINISHED  
ALL

TASK A NOW WORKING

TASK B NOW WORKING

TASK C NOW WORKING

TASK D NOW WORKING

TASK E NOW WORKING

TASK F NOW WORKING

TASK G NOW WORKING

TASK H NOW WORKING

TASK J NOW WORKING

TASK J NOW WORKING

TASK L NOW WORKING



TASK M NOW WORKING

TASK N NOW WORKING

TASK P NOW WORKING

TASK R NOW WORKING

TASK T NOW WORKING

TASK V NOW WORKING

TASK W NOW WORKING

TASK X NOW WORKING

OUTPUT FORMATTING IN PROGRESS - PLEASE STAND BY

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!!

#### 7.11.5 YEARLY REPORT

The Yearly report displays all the fiscal year costs and hours for an entire contract. The same query options are available as used on the Cost reports (see section 7.4.1 of this document). A terminal display of total costs and hours by fiscal year is given within the report as shown in the following example. Printer output of the report also includes a calendar year cost and hourly summary (see Appendix O-5 for an example of the Yearly report output format).

"-CON 16200 "

----- MENU #1 -----

REPORT: 1. ONLY	BASED ON: 1. EAC'S	1. FEE	TASKS: 1. ALL
2. PLUS	2. ACT'S	2. NO FEE	2. CERTAIN

--- ENTER OPTIONS ---> 1 1 2 1

----- MENU #2 -----

STATUS:	1. ALL	RECORDS:	1. ALL	PROGNO:	1. ALL
	2. AUT		2. MANUAL		2. CERTAIN
	3. FUT		3. SUSTAIN		

--- ENTER OPTIONS ---> 1 1 1

----- MENU #3 -----

J.O.:	(1) ALL	COMPLETED:	(1) ALL
	(2) CERTAIN		(2) YES
			(3) NO

--- ENTER OPTIONS ---> 1 1

- (1) COMPUTE REPORT WHILE I WAIT
- (2) SUBMIT AS A FAST PHANTOM JOB
- (3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

CONTRACT: NAS1-16200

MIN-MAX-YEAR REPORT BY FISCAL YEAR

DOLLARS AND HOURS REPORT

BASED ON EAC'S

ALL RECORDS

ALL TASKS

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:

TUE, APR 30 1985 03:23:05 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

25 RECORDS COMPUTED.

50 RECORDS COMPUTED.

75 RECORDS COMPUTED.

100 RECORDS COMPUTED.

125 RECORDS COMPUTED.

150 RECORDS COMPUTED.

175 RECORDS COMPUTED.

200 RECORDS COMPUTED.

225 RECORDS COMPUTED.

250 RECORDS COMPUTED.

275 RECORDS COMPUTED.

300 RECORDS COMPUTED.

FIRST MONTH IN CONTRACT NAS1-16200 = MAR 1981

LAST MONTH IN CONTRACT NAS1-16200 = OCT 1986

# SUMMARY BY FISCAL YEAR

YEAR	DOLLARS	HOURS
----	-----	-----
1982	\$7,392,642	112,886
1983	\$9,621,541	135,711
1984	\$8,993,463	105,783
1985	\$9,913,596	94,905
1986	\$2,984,644	20,878
1987	\$3,219,116	18,084
----	-----	-----
TOTAL	\$42,125,002	488,247

- (1) SCOUT PROJECT OFFICE / LARC, NASA
- (2) VOUGHT CORPORATION / DALLAS, TX
- (3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> QUIT  
EXIT.

## 8.0 UPDATE OPTION

The Update menu for the Contract Analysis file contains the following options: Dallas Tape update, Balance sheet update, ETC EAC-Budget update, Quickie Header update, Edit Tables, Resort Data Base, Book All Outputs, and Job Orders update. Each of these options is discussed in detail and illustrated in the following sections.

### 8.1 DALLAS TAPE UPDATE

A Dallas actuals tape update may be performed for a particular contract only if a WA list file has been built for that contract. The building of the WA list file is accomplished once a month by the computer support staff during the tape-to-disk conversion of the monthly Dallas actuals tape from Vought Corporation in Texas. Within this routine the user will be prompted for the status date (month and year) for the actual dollar figures to be input. No other user interface is required. Two printouts will be automatically spooled to the system printer when the update has been completed: (1) a detailed report of what values were converted, called the CONVERSION report, and (2) a listing of those records not found in the Contract Analysis data base, called UNDEFINED. The following illustrates the update routine.

ENTER OPTION > 5

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS

(8) JOB ORDERS

ENTER OPTION # > 1

ENTER STATUS MONTH NAME AND YEAR

IMMMIYYI

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3005 AAA	FOUND FOR PROCESSING
3005 AAB	FOUND FOR PROCESSING
3005 AAC	FOUND FOR PROCESSING
3005 AAD	FOUND FOR PROCESSING
3005 AAE	FOUND FOR PROCESSING
3005 BAA	FOUND FOR PROCESSING
3005 BADB	FOUND FOR PROCESSING
3005 BAEA	FOUND FOR PROCESSING
3005 BAEB	FOUND FOR PROCESSING
3005 BAEC	FOUND FOR PROCESSING
3008 RPAE	FOUND FOR PROCESSING
3008 RYAA	FOUND FOR PROCESSING

9 UNDEFINED WA RECORDS WERE FOUND

UNDEFINED WA OUTPUT READY FOR SPOOLING

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

(3) PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED !!!!

CONVERSION FILE READY FOR SPOOLING

\*\* NOTE \*\* THIS FILE SHOULD BE SPOOLED TO THE SYSTEM PRINTER

(0) NO OUTPUT !!!

(1) SCOUT PROJECT OFFICE / LARC, NASA

(2) VOUGHT CORPORATION / DALLAS, TX

(3) PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED !!!!

When this routine has been completed, the user is returned to the program main menu. The Discrepancy report and then the W.A. Status report must be run next from the report menu in that order (see sections 7.7 and

7.9 of this document). After corrections have been made to any discrepancies the Balance Sheet update routine must be run (see section 8.2 of this document).

## 8.2 BALANCE SHEET UPDATE

The balance sheet update routine may be run only on those contracts which has EAC Balance sheet records within the data base file. If an attempt is made to run a balance sheet update on a contract that does not have EAC Balance sheet records within the data base file, the following will be displayed:

```
'BALANCE SHEET UPDATE CANNOT BE DONE FOR THIS  
CONTRACT ***** THERE ARE NO BALANCE SHEETS !!!!!'
```

In the balance sheet update routine the user must first enter the desired status date (month and year) to be updated. Next the desired task must be entered, or a carriage return entered to indicate that all tasks are to be updated, and then the record numbers of those records updated will be displayed at the terminal screen. If no errors are encountered, a message stating so will be displayed. If errors are encountered, a message stating so will be displayed, and a report containing those errors will be automatically spooled to the system printer. The user may wish to have a complete balance sheet report showing a detailed outline of all hours and dollars for every task of a particular contract. This report is run from the Contract Analysis report generator which is option four (4) on the main menu. The following example illustrates the balance sheet update option.

```
ENTER UPDATE DESIRED: (RETURN IF FINISHED)  
=====
```

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET

- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 2

ENTER STATUS DATE TO BE UPDATED.

! ! !

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ENTER TASK TO BE UPDATED (BLANK FOR ALL) > A

A	1		
	NREC=	2	BALANCE LIST NO.= 1
	NREC=	3	BALANCE LIST NO.= 1
	NREC=	4	BALANCE LIST NO.= 1
	NREC=	5	BALANCE LIST NO.= 1
	NREC=	6	BALANCE LIST NO.= 1
	NREC=	7	BALANCE LIST NO.= 1

\*\*\*\* NO ERRORS IN THE BALANCE SHEET UPDATE \*\*\*\*

BALANCE SHEET REPORT RUN FROM REPORT MENU

### 8.3 ETC EAC-BUDGET UPDATE

This option allows the user to update the hours and dollars data by computing a new budget and estimate at completion (EAC) based upon the contractor's latest estimate to complete (ETC) data and the fiscal year rates. This update is designed for records which are not yet closed and which contain the current status date. However, the user may change the status date to begin ETC computation at the beginning of this routine. This may be done in order to match a month and year contained in the hours and dollars data of the analysis record to the modified status date. It should be noted that this status date change is temporary and is in effect for the current session only.

The following is an analysis record prior to any EAC - ETC update. The reader should note the values of the hours and dollars data for May,

1984.

DATE: THU, MAY 10 1984 STATUS:AUT J.O.S:16 MONTHS:14 SYS ITEM NO: 125  
TITLE:PROCUREMENT & SHIPMENT OF MISCELLANEOUS ITEMS, VEHICLE PROCESSING  
MOD: , , , CONTRACTOR:VOUGHT  
REMRK:  
NASA RESPONSIBLE ENGR:RLD KTR RESPONSIBLE ENGR:SHAW  
RBK: PURCHASE REQUEST:  
CONTRACT/PURCHASE ORDER:NAS1-16200 TASK:H SUBTASK: .  
WORK AUTHORITY:3005 WA CODE:HAA COMPLETED TASK:NO TABLE:SUST  
R.T. HRS:1952 R.T. DOLLARS:15348  
TOTAL AUT HOURS:1960 TOTAL AUT DOLLARS:97020 FEE:15.927%

MMM YR CMAA	CUM EAC SPREAD		CUM ACTUALS		COMPLETION(EAC)	
	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS
SEP 83	538	22541	538	22541	1676	68755
OCT 83	633	26392	538	22541	1676	68755
NOV 83	728	30243	538	23095	1676	68755
DEC 83	564	24089	564	24089	1509	65764
JAN 84	669	28720	589	25107	1509	65764
FEB 84	774	33351	622	27953	1509	65764
MAR 84	879	37982	647	29187	1509	65764
APR 84	984	42613	656	30257	1509	65764
MAY 84	1089	47244	698	32046	1509	65764
JUN 84	1194	51875	0	0	0	0
JUL 84	1299	56506	0	0	0	0
AUG 84	1404	61137	0	0	0	0
SEP 84	1509	65764	0	0	0	0
OCT 84	1509	65764	0	0	0	0

The following example illustrates the ETC update procedure.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 3

WELCOME TO THE ETC / EAC UPDATE ROUTINE

THE CURRENT STATUS DATE IS MAY 84



CURRENT STATUS DATE OK (Y OR N) > Y      \*\* If 'N' is entered, the prompt  
ENTER NEW STATUS DATE FOR THIS RECORD UPDATE SESSION  
IMMIIYY!  
Is displayed.

ENTER WAN & WACODE (RETURN IF DONE)  
NNNNAAAA  
305HAA

\*\*\* ERROR \*\*\*  
RECORD NOT FOUND FOR WA 305HAA

ENTER WAN & WACODE (RETURN IF DONE)  
NNNNAAAA  
3005HAA

WA = 3005HAA FOUND. RECORD NO. = 125

\*\*\*\*\*  
\*\*\* UPDATE FOR FISCAL YEAR '84 \*\*\*  
\*\*\*\*\*

ENTER ETC HOURS > 300      \*\* BOGUS VALUES \*\*

ENTER ETC MATERIAL / ODC > 2220      \*\* BOGUS \*\*

TASK = H  
HOURLY RATE = 33.33      DOLLAR RATE = 100.00      \*\* BOGUS \*\*  
NEW TOTAL DOLLAR ETC = 15454      \*\* BOGUS \*\*  
\*\*\*\*\*  
NEW EAC SPREAD HOURS= 998      NEW EAC SPREAD DOLLARS= 47500      BOGUS \*\*  
\*\*\*\*\*

NORMAL SPREAD (Y - N) > Y      \*\* Refer to section 4.1, the third example, for  
an abnormal spread.

\*\*\*\*\*  
\*\*\* UPDATE FOR FISCAL YEAR '85 \*\*\*  
\*\*\*\*\*

ENTER ETC HOURS > 0      \*\* BOGUS \*\*

ENTER ETC MATERIAL / ODC > 0      \*\* BOGUS \*\*

TASK = H

HOURLY RATE = 44.44      DOLLAR RATE = 101.01      \*\* BOGUS \*\*  
NEW TOTAL DOLLAR ETC = 0      \*\* BOGUS \*\*  
\*\*\*\*\*  
NEW EAC SPREAD HOURS= 998      NEW EAC SPREAD DOLLARS= 47500      BOGUS \*\*  
\*\*\*\*\*

ENTER WAN & WACODE (RETURN IF DONE)

NNNNAAAA

\*\* return \*\*

DATE: THU, MAY 10 1984 STATUS:AUT J.O.S:16 MONTHS:14 SYS ITEM NO: 125

TITLE:PROCUREMENT & SHIPMENT OF MISCELLANEOUS ITEMS, VEHICLE PROCESSING

MOD: , , , CONTRACTOR:VOUGHT

REMRK:

NASA RESPONSIBLE ENGR:RLD KTR RESPONSIBLE ENGR:SHAW

RBK: PURCHASE REQUEST:

CONTRACT/PURCHASE ORDER:NAS1-16200 TASK:H SUBTASK: .

WORK AUTHORITY:3005 WA CODE:HAA COMPLETED TASK:NO TABLE:SUST

R.T. HRS:1952 R.T. DOLLARS:15348

TOTAL AUT HOURS:1960 TOTAL AUT DOLLARS:97020 FEE:15.927%

MMM YR CMAA	CUM EAC SPREAD		CUM ACTUALS		COMPLETION(EAC)	
	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS
SEP 83	538	22541	538	22541	1676	68755
OCT 83	633	26392	538	22541	1676	68755
NOV 83	728	30243	538	23095	1676	68755
DEC 83	564	24089	564	24089	1509	65764
JAN 84	669	28720	589	25107	1509	65764
FEB 84	774	33351	622	27953	1509	65764
MAR 84	879	37982	647	29187	1509	65764
APR 84	984	42613	656	30257	1509	65764
MAY 84	698	32046	698	32046	998	47500
JUN 84	773	35910	0	0	998	47500
JUL 84	848	39774	0	0	0	0
AUG 84	923	43638	0	0	0	0
SEP 84	998	47502	0	0	0	0
OCT 84	998	47500	0	0	0	0

#### 8.4 QUICKIE HEADER UPDATE

The quickie header update allows the user to change the header data for all records in the Contract Analysis data base that satisfy a set of criteria. For example, the user may retrieve for records of Task 'L', having a 'NO' in the Complete field, and having a Contractor of 'LTV'. All records having those field values will be changed to any desired values for selected data items, such as Status: 'AUT', and contractor as 'VOUGHT'. The following example illustrates the quickie header update option.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 4

ENTER THE FIELD(S) AND VALUE(S) FOR THE ANALYSIS  
RECORDS TO BE MODIFIED. RETURN IF FINISHED.

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

=====

- |             |              |             |
|-------------|--------------|-------------|
| 1) DATE     | 2) STATUS    | 3) NOJOS    |
| 4) RNTM     | 5) SYSNUM    | 6) TITLE    |
| 7) MOD      | 8) CNT       | 9) REMARKS  |
| 10) NR      | 11) CR       | 12) RBK     |
| 13) PR      | 14) CONT     | 15) TASK    |
| 16) TASKAS  | 17) TASKSB   | 18) WAN     |
| 19) WACODE  | 20) COMPLETE | 21) R.T.HRS |
| 22) R.T.BOM | 23) ACTBOM   | 24) TABLE   |
| 25) TOTHR   | 26) TOTDOL   |             |

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15

ENTER VALUE > B

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

RECORD NO. 8 MATCH FOUND Note that at least one record must be located  
in the data base having the specified value(s).

ENTER FIELD TO BE MODIFIED AND ITS NEW VALUE

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

=====

- |             |              |             |
|-------------|--------------|-------------|
| 1) DATE     | 2) STATUS    | 3) NOJOS    |
| 4) RNTM     | 5) SYSNUM    | 6) TITLE    |
| 7) MOD      | 8) CNT       | 9) REMARKS  |
| 10) NR      | 11) CR       | 12) RBK     |
| 13) PR      | 14) CONT     | 15) TASK    |
| 16) TASKAS  | 17) TASKSB   | 18) WAN     |
| 19) WACODE  | 20) COMPLETE | 21) R.T.HRS |
| 22) R.T.BOM | 23) ACTBOM   | 24) TABLE   |
| 25) TOTHR   | 26) TOTDOL   |             |

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15

ENTER VALUE > Z

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 2

ENTER VALUE > FUT

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

RECORD NO. 9 MATCH FOUND AND MODIFIED

RECORD NO. 10 MATCH FOUND AND MODIFIED

RECORD NO. 11 MATCH FOUND AND MODIFIED

RECORD NO. 12 MATCH FOUND AND MODIFIED

RECORD NO. 13 MATCH FOUND AND MODIFIED

RECORD NO. 14 MATCH FOUND AND MODIFIED

RECORD NO. 15 MATCH FOUND AND MODIFIED

NO MATCH FOUND END OF FILE      This is the normal message indicating that  
the end of the file has been reached.

ENTER THE FIELD(S) AND VALUE(S) FOR THE ANALYSIS  
RECORDS TO BE MODIFIED. RETURN IF FINISHED.

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

=====

1) DATE	2) STATUS	3) NOJOS
4) RNTM	5) SYSNUM	6) TITLE
7) MOD	8) CNT	9) REMARKS
10) NR	11) CR	12) RBK
13) PR	14) CONT	15) TASK
16) TASKAS	17) TASKSB	18) WAN
19) WACODE	20) COMPLETE	21) R.T.HRS
22) R.T.BOM	23) ACTBOM	24) TABLE
25) TOTHR	26) TOTDOL	

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > \*\* return \*\*

## 8.5 EDIT TABLES OPTION

The purpose of this section is to describe the edit tables option, option five (5) on the Contract Analysis update menu. This routine allows the user to update any of the following tables:

- (1) Fee Table - Contains fees for each contract task, detailed to the subtask level.
- (2) Rate Table - Contains rates for each contract task, listed by hours and M/ODC dollars.
- (3) Sustaining Table - Contains for each contract task, detailed by subtask, a list of sustaining job orders and their corresponding fiscal year percents.
- (4) Program number / Job order Table - Contains program numbers corresponding to every job order used by the Scout Project Office since 1972.
- (5) Time Table - Contains beginning and ending dates for each contract task and each task's fixed contract value and base fee.
- (6) Security Table - Contains user ID's of all users cleared to use the Contract Analysis data base along with clearance codes for all command options.

The update procedures for each of these tables are described in the following sections.

#### 8.5.1 FEE TABLE UPDATE

The fee table update routine allows the user to edit the fee table manually (M) or through the Estimate at Completion automatic update option (E). If the user response is 'M', the fee is manually entered into the fee table. If the user response is 'E', the system prompts the user for the new EAC value (the total value) for that task, as follows:

'ENTER NEW EAC (In thousands NNNNN.NNN) >'. The system then computes a new value for the fee table from the contract value and the base fee stored in the time table for that particular task. If the task is not currently in the

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ENTER (M) MANUAL OR (E) EAC AUTOMATIC > M

ENTER TASK (RETURN IF FINISHED) > A

TASK A FEE = 7.000

\*\* BOGUS \*\*

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW FEE

!NN.NNN!

9.999

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > \*\* return \*\*

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)

(1) FEE	(2) RATE	(3) SUSTAINING
(4) PROG-JO	(5) TIME	(6) SECURITY

ENTER OPTION # > \*\* return \*\*

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 5

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)

(1) FEE	(2) RATE	(3) SUSTAINING
(4) PROG-JO	(5) TIME	(6) SECURITY

ENTER OPTION # > 1

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > E

ENTER TASK (RETURN IF FINISHED) > A

TASK A FEE = 0.000

\*\* BOGUS \*\*

IS THIS THE CORRECT ITEM (Y OR N) > N

TASK A FEE = 7.000

\*\* BOGUS \*\*

IS THIS THE CORRECT ITEM (Y OR N) > N

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > E

ENTER TASK (RETURN IF FINISHED) > A

TASK A FEE = 0.000

\*\* BOGUS \*\*

IS THIS THE CORRECT ITEM (Y OR N) > N

TASK A FEE = 7.000

\*\* BOGUS \*\*

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW EAC (In thousands NNNNN.NNN) > 4999.9

TASK A FEE = 7.800

\*\* BOGUS \*\*

Correct Fee: Enter In Table (Y or N) > Y

### 8.5.2 RATE TABLE UPDATE

The rate table update option allows the user to change the rate table values for a particular task and fiscal year. Both the hour and dollar rates may be changed, but never deleted. Blank or zero entries indicate that the field is to remain unchanged. The following example illustrates this option.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)

(1) FEE	(2) RATE	(3) SUSTAINING
(4) PROG-JO	(5) TIME	(6) SECURITY

ENTER OPTION # > 2

ENTER TASK (RETURN IF FINISHED) > A

TASK A FOUND

ENTER FISCAL YEAR TO BE CHANGED > 80

HOURS DOLLARS

These values are examples of current values stored in the rate table. These are BOGUS values.

5.55 6.66

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW RATES

HOURS DOLLARS

!NNN.NN!NNN.NN!

BLANK FOR NO CHANGE

7.77 8.88



ENTER FISCAL YEAR TO BE CHANGED > 80

HOURS DOLLARS  
7.77 8.88

\*\* BOGUS \*\*

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW RATES  
HOURS DOLLARS  
INNN.NN!NNN.NN! BLANK FOR NO CHANGE  
9.99

ENTER FISCAL YEAR TO BE CHANGED > 80

HOURS DOLLARS  
7.77 9.99

\*\* BOGUS \*\*

Note that 7.77 remains  
the same value.

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW RATES  
HOURS DOLLARS  
INNN.NN!NNN.NN! BLANK FOR NO CHANGE  
\*\* return \*\*

ENTER FISCAL YEAR TO BE CHANGED > \*\* return \*\*

ENTER TASK (RETURN IF FINISHED) > \*\* return \*\*

### 8.5.3 SUSTAINING TABLE UPDATE

The sustaining table update option allows the user to change the sustaining table by task and job order. The user must retrieve the desired sustaining table record by entering the appropriate task and job order. The user may delete or modify the sustaining table record by revising the job order, the subtask, or the fiscal year percents. If the desired record is not found, the user may choose to make that job order a new entry into the sustaining table. The following example illustrates all possible options for the sustaining table update command.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)  
(1) FEE (2) RATE (3) SUSTAINING  
(4) PROG-JO (5) TIME (6) SECURITY

ENTER OPTION # > 3

ENTER TASK & J.O. DESIRED -- RETURN IF FINISHED

! !ENNNNA!

A E7195A

JOB ORDER E7195A FOR TASK A NOT FOUND

IS THIS TO BE A NEW ENTRY (Y OR N) > Y

ENTER NEW SUBTASK

!NNN! RIGHT JUSTIFY

G

77	78	79	80	81	82	83	84
!NNN.NNN!	!NNN.NNN!	!NNN.NNN!	!NNN.NNN!	!NNN.NNN!	!NNN.NNN!	!NNN.NNN!	!NNN.NNN!
100.000	99.00						

ENTER TASK & J.O. DESIRED -- RETURN IF FINISHED

! !ENNNNA!

A E7195A

TASK A	JOB = E7195A				SUBTASK = G		
77	78	79	80	81	82	83	84
100.000	99.000	0.000	0.000	0.000	0.000	0.000	0.000

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE THIS J.O. (REV OR DEL) > REV

ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED

1. J.O.          2. SUBTASK          3. PERCENTS

1

ENTER NEW JOB ORDER

!ENNNNA!

E7196A

TASK A	JOB = E7196A				SUBTASK = C		
77	78	79	80	81	82	83	84
100.000	99.000	0.000	0.000	0.000	0.000	0.000	0.000

ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED

1. J.O.          2. SUBTASK          3. PERCENTS

2

ENTER NEW SUBTASK

!NNN! RIGHT JUSTIFY

12

TASK A	JOB = E7196A				SUBTASK = 12		
77	78	79	80	81	82	83	84
100.000	99.000	0.000	0.000	0.000	0.000	0.000	0.000

ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED  
1. J.O.        2. SUBTASK        3. PERCENTS  
3

ENTER PERCENTAGE YEAR : BLANK ENTRIES WHEN COMPLETED  
77 , 78 , 79 , 80 , 81 , 82 , 83 , 84  
78

ENTER PERCENT  
!NNN.NNN!  
100.000

ENTER PERCENTAGE YEAR : BLANK ENTRIES WHEN COMPLETED  
77 , 78 , 79 , 80 , 81 , 82 , 83 , 84  
\*\* return \*\*

TASK A		JOB = E7196A				SUBTASK = 12	
77	78	79	80	81	82	83	84
100.000	100.000	0.000	0.000	0.000	0.000	0.000	0.000

ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED  
1. J.O.        2. SUBTASK        3. PERCENTS  
\*\* return \*\*

ENTER TASK & J.O. DESIRED -- RETURN IF FINISHED  
! !ENNNNA!  
A E7196A

TASK A		JOB = E7196A				SUBTASK = 12	
77	78	79	80	81	82	83	84
100.000	100.000	0.000	0.000	0.000	0.000	0.000	0.000

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE THIS J.O. (REV OR DEL) > DEL

JOB ORDER E7196A    FOR   TASK A    DELETED

ENTER TASK & J.O. DESIRED -- RETURN IF FINISHED  
! !ENNNNA!  
\*\* return \*\*

ENTER TASK TO BE UPDATED   OR   ALL >

No further user responses will be shown at this point. However, it should be noted that 'ENTER TASK TO BE UPDATED OR ALL >' will be described in detail in option 1 of section 8.8.1 of this document (rebuild job orders from sustaining table). Entering a carriage return at this prompt will return the user to the program main menu. If a change has been made to the

sustaining table, normal procedure dictates that the data base job orders be updated to reflect that change. Entering the task of the modified job orders will automatically incorporate that change into the data base.

#### 8.5.4 PROGRAM NUMBER / JOB ORDER TABLE UPDATE

The program number / job order table update option allows the user to change records in the program number lookup table by job order. The user must retrieve the desired record by entering the appropriate job order, and may delete the entire record or modify the program number field. If the desired record is not found, the user may choose to make that job order a new entry into the program number lookup table. The following example illustrates this update option.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)

(1) FEE	(2) RATE	(3) SUSTAINING
(4) PROG-JO	(5) TIME	(6) SECURITY

ENTER OPTION # > 4

ENTER J.O. DESIRED -- RETURN IF FINISHED

!ENNNNA!

E9999V

JO E9999V NOT FOUND IN TABLE

ADD JO TO TABLE (ADD) OR CONTINUE NEXT JO (CONT) > ADD

ENTER PROGRAM NO. : BLANK TO DELETE ENTRY

!NNNNNNNNNNNNNNNNNN!

490000000000000000

ENTER J.O. DESIRED -- RETURN IF FINISHED

!ENNNNA!

E9999V

J.O. E9999V PROGNO = 490000000000000000

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER PROGRAM NO. : BLANK TO DELETE ENTRY  
!NNNNNNNNNNNNNNNNNNNN!  
4999999999999999

ENTER J.O. DESIRED -- RETURN IF FINISHED  
!ENNNNA!  
E9999V

J.O. E9999V PROGNO = 4999999999999999

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER PROGRAM NO. : BLANK TO DELETE ENTRY  
!NNNNNNNNNNNNNNNNNNNN!  
\*\* return \*\*

JO E9999V DELETED

ENTER J.O. DESIRED -- RETURN IF FINISHED  
!ENNNNA!  
\*\* return \*\*

#### 8.5.5 TIME TABLE UPDATE

The time table update option allows the user to change the time table values by task. The values include the starting and ending dates (month and year) for each task and the fixed contract value and fixed base fee for each task. It should be noted that both the fixed contract value and the fixed base fee are in units of thousands of dollars. The following example illustrates this option.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)  
(1) FEE            (2) RATE            (3) SUSTAINING  
(4) PROG-JO       (5) TIME            (6) SECURITY

ENTER OPTION # > 5

ENTER TASK        (RETURN IF FINISHED) > A

TASK = A	STARTING 10-76	ENDING 10-76	** BOGUS VALUES **
	FIXED CONTRACT VALUE =	1110.00	FIXED BASE FEE = 19.00

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER RETURN OR ZERO (0) TO QUIT OR FINISH

ENTER (D) DATES OR (F) FIXED VALUES > D

ENTER (S) FOR STARTING OR (E) FOR ENDING > E

ENTER MONTH & YEAR

## ##

11 78

ENTER RETURN OR ZERO (0) TO QUIT OR FINISH

ENTER (D) DATES OR (F) FIXED VALUES > F

ENTER (C) CONTRACT OR (B) BASE FEE > B

ENTER FIXED BASE FEE NNNN.NN > 100.99

ENTER (C) CONTRACT OR (B) BASE FEE > \*\* return \*\*

ENTER TASK (RETURN IF FINISHED) > A

TASK = A	STARTING 10-76	ENDING 11-78	** BOGUS VALUES **
	FIXED CONTRACT VALUE = 1110.00		FIXED BASE FEE = 100.99

IS THIS THE CORRECT ITEM (Y OR N) > N

ENTER TASK (RETURN IF FINISHED) > \*\* return \*\*

#### 8.5.6 SECURITY TABLE UPDATE

The security table update option allows the Financial Security Monitor to change the user security table. Only the Security Monitor has the clearance to access and modify the security table!! Each record may be deleted or modified by ID code. If an ID code is not found in the table, the Security Monitor may choose to make that ID code a new entry into the security table. For security reasons, the access control codes for each user are not defined within this document. The following example illustrates this update option.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)

(1) FEE	(2) RATE	(3) SUSTAINING
(4) PROG-JO	(5) TIME	(6) SECURITY

ENTER OPTION # > 6

ENTER USER ID (RETURN IF FINISHED) > CCC

```

USER ID = CCC    *** NO PROCESSING DONE ***

ADD NEW USER OR QUIT  (A OR Q) > A

ENTER NAME FOR USER CCC
!      !
TESTID

ENTER NEW CODES
! ! ! ! ! ! ! !
4 4 4 4 4 4 4 4

ENTER USER ID (RETURN IF FINISHED) > CCC

USERID = CCC  NAME = TESTID  CODES = 4 4 4 4 4 4 4 4

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE  (R OR D) > R

ENTER NEW CODES
! ! ! ! ! ! ! !
4 3 3 3

ENTER USER ID (RETURN IF FINISHED) > CCC

USERID = CCC  NAME = TESTID  CODES = 4 3 3 3 0 0 0 0

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE  (R OR D) > D

USER:  ID CODE = CCC DELETED

ENTER USER ID (RETURN IF FINISHED) > ** return **

```

## 8.6 RESORT DATA BASE OPTION

This routine should be performed after the input or deletion of a record in the Contract Analysis data base. The balance sheet update routine should be run after this option has been run, and is discussed in section 8.2 of this document. This option requires no terminal input from the user, and when completed returns the user to the program main menu. The following illustrates the operation of the resort option.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)  
=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 6

PLEASE STAND BY. PRE-SORT NOW IN PROGRESS

REBUILDING NOW IN PROGRESS -- STAND BY

#### 8.7 BOOK ALL OUTPUTS

The book all output routine develops two (2) reports for output of the entire data base for the selected contract. The first output is in a listing format displaying the task, subtask, work authorization, system number, title, and RBK data fields of each record. A sample of this type of listing is contained in Appendix B-1 of this document. The second output prints all the data fields of each record, an example of which is contained in Appendix C-1 of this document. Each output is spooled individually. Due to their size both should be spooled to a line printer. See the following example:

ENTER UPDATE DESIRED: (RETURN IF FINISHED)  
=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 7



OUTPUT FORMATTING IN PROGRESS - PLEASE STAND BY

\*\*\* SPOOLING LISTING OF BOOK ALL RECORDS \*\*\*

OUTPUT TO :

- 0) NO OUTPUT !!!
- 1) SCOUT PROJECT OFFICE / LARC, NASA
- 2) VOUGHT CORPORATION / DALLAS, TX
- 3) PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER > 1

OUTPUT TO :

- 0) START OVER
- 1) LQP A - COMPUTER PAPER
- 2) LQP B - SINGLE SHEET
- 3) LQP G - DUAL SHEET
- 4) SCOUT SYSTEM PRINTER

ENTER OPTION NUMBER > 4

ENTER NUMBER OF COPIES > 1

(MAX. OF 5)  
(0 TO ABORT)

\*\*\* SPOOLING ENTIRE RECORD FILE \*\*\*

OUTPUT TO :

- 0) NO OUTPUT !!!
- 1) SCOUT PROJECT OFFICE / LARC, NASA
- 2) VOUGHT CORPORATION / DALLAS, TX
- 3) PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER > 2

OUTPUT TO :

- 0) START OVER
- 1) LQP S - SINGLE SHEET
- 2) LQP T - COMPUTER PAPER
- 3) DALLAS SYSTEM PRINTER / W

ENTER OPTION NUMBER > 3

ENTER NUMBER OF COPIES > 1

(MAX. OF 5)  
(0 TO ABORT)

## 8.8 JOB ORDERS UPDATE

This option allows the user to update job orders within the Financial

Contract Analysis data base. The following menu displays the two update options:

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 8

\*\*\* UPDATE JOBORDER OPTIONS \*\*\*

=====

- (1) REBUILD JOB ORDERS FROM SUSTAINING TABLE
- (2) UPDATE PROGRAM NUMBERS FOR EACH JOB ORDER

ENTER OPTION NUMBER > \*\* return \*\*

Each of these options is discussed in detail in the following sections.

#### 8.8.1 REBUILD JOB ORDERS FROM SUSTAINING TABLE

This option rebuilds the job orders for all records in the data base which have the value 'SUST' for the header field called 'TABLE'. The routine rebuilds all the job orders based upon the sustaining job order table previously discussed in section 8.5.3. The user may select to update a specific task or the entire data base simultaneously. This is the point at which the user enters when exiting the sustaining table update (section 8.5.3). Selection of the task (or all) will then update the financial data base with the new sustaining job orders and / or percents. It should be noted that each job order is verified in the program number table during the update of the first record only. The 'FOUND' message indicates that the job

order has been found in the program number table. If the job order is not found, the user will be prompted to enter the corresponding program number. Note that any program numbers entered will automatically be entered into the program number table (see section 8.5.4). The following example illustrates this update option for a specific task.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

=====

- (1) DALLAS TAPE
- (2) BALANCE SHEET
- (3) ETC EAC-BUDGET
- (4) QUICKIE HEADER
- (5) EDIT TABLES
- (6) RE-SORT DATA BASE
- (7) BOOK ALL OUTPUTS
- (8) JOB ORDERS

ENTER OPTION # > 8

\*\*\* UPDATE JOBORDER OPTIONS \*\*\*

=====

- (1) REBUILD JOB ORDERS FROM SUSTAINING TABLE
- (2) UPDATE PROGRAM NUMBERS FOR EACH JOB ORDER

ENTER OPTION NUMBER > 1

ENTER TASK TO BE UPDATED OR ALL > A

RECORD NO.= 1

JOB ORDER E7000A FOUND.  
JOB ORDER E7002A FOUND.  
JOB ORDER E7198X FOUND.

FOR PROGRAM NO., ENTER BLANK AT FIRST POSITION  
NNNNNNNNNNNNNNNNNNNN  
49004172700840483

JOB ORDER E7002A FOUND.  
JOB ORDER E7206A FOUND.  
JOB ORDER E8002A FOUND.  
JOB ORDER E8005A FOUND.

RECORD NO.= 2  
RECORD NO.= 4

RECORD NO.= 5  
RECORD NO.= 6

ENTER TASK TO BE UPDATED OR ALL > \*\* return \*\*

#### 8.8.2 UPDATE PROGRAM NUMBERS

This option allows the user to update a set of program numbers for a specific job order. Three options are available: update of all records in the data base, update of only those records containing 'MANL' in the header field called 'TABLE', or update of only those records having 'SUST' in the header field called 'TABLE'. All three options operate identically, their only difference being which records are selected for update. The following example illustrates option 2 - the update for manual records only.

\*\*\* UPDATE JOBBORDER OPTIONS \*\*\*  
=====

- (1) REBUILD JOB ORDERS FROM SUSTAINING TABLE
- (2) UPDATE PROGRAM NUMBERS FOR EACH JOB ORDER

ENTER OPTION NUMBER > 2

\*\*\* UPDATE PROGRAM NUMBER OPTIONS \*\*\*  
=====

- (1) REBUILD JOBBORDER PROGRAM NUMBERS (ALL)
- (2) REBUILD JOBBORDER PROGRAM NUMBERS (MANUAL)
- (3) REBUILD JOBBORDER PROGRAM NUMBERS (SUSTAIN)

ENTER OPTION NUMBER > 2

ENTER JOBBORDER TO BE UPDATED (EX: E7207) > E7198

RECORD NO.= 23  
RECORD NO.= 29  
RECORD NO.= 36  
RECORD NO.= 44  
RECORD NO.= 49  
RECORD NO.= 68  
RECORD NO.= 96  
RECORD NO.= 98  
RECORD NO.= 101

ENTER JOBBORDER TO BE UPDATED (EX: E7207) > \*\* return \*\*

## 9.0 RATETABLE OPTION

This option (option 6 on the main menu) allows the users that are cleared to access rates to use the rate table as a calculator. The user will be asked for the desired task, hours, and dollars to be computed. The total dollars and total hours will be displayed at the terminal screen based on any fiscal year set of rates for that contract. This option is very similar to the ratetable spread option during the input or revision of an analysis data base record described in sections 4.1 and 5.0 of this document. The following example illustrates this option.

ENTER TASK > Z

TASK=Z

ENTER TOTAL ENGINEERING HOURS > 3                   \*\* THESE ARE BOGUS VALUES \*\*

ENTER MATERIAL - ODC DOLLARS > 333               \*\* BOGUS \*\*

ENTER FISCAL YEAR OF RATES TO BE USED > 80   \*\* BOGUS \*\*

\*\*\*\*\*

TOTAL DOLLARS =               0                   \*\* BOGUS \*\*

TOTAL HOURS =                 3                   \*\* BOGUS \*\*

\*\*\*\*\*

## A P P E N D I C E S

```

*****
*****
STATUS:      CONTRACT NUMBER: NAS1-16200  TASK: R    WA:      COMPLETE: NO  ENGINEER:
*****
*****
SUBTASK  MODS      WACODE  SYS NO    TITLE
*****
1.      0.          , ,      EGAA    269    TASK R - SPECIAL PROGRAMS, EAC BALANCE SHEET
2.      12.00       , ,      EGAA    281    STORAGE & ANNUAL INVENTORY OF TOOLS & TEST EQUIPMENT AT HONEYWELL, INC.
3.      22.01       , ,      NFA     292    LAUNCH TEAM INCREASE - WFF SUPPORT TO VAFB BY R-22 PERSONNEL/LABOR
4.      22.02       , ,      NFB     293    WFF LAUNCH TEAM INCREASE - ITV
5.      49.00       , ,      RPAG    319    QUALIFICATION AND FABRICATION OF THREE (3) ALGOL III MOTOR CASES
6.      50.00       , ,      RTAA    320    S-218 VEHICLE FABRICATION, ENGINEERING AND QUALITY SUPPORT
7.      51.00       , ,      HBAA    321    A-69 HEATSHIELD MODIFICATION, POLAR BEAR
8.      53.00       , ,      RTAB    323    INSPECTION OF ANTARES IIA (X-259) LOADED CASES AND IGNITERS
9.      54.00       , ,      BBK     324    DYNAMIC ANALYSIS - POLAR BEAR
10.     55.00       , ,      VYAB    325    REPLACEMENT OF LOST TOOL
11.     57.00       , ,      BBL     326    GENERAL COORDINATION (P86-2)
12.     58.00       , ,      BBM     327    RANGE SAFETY FOR S-209 - SOOS-1 MISSION

```

\*\*\*\*\*

BOOK ALL LISTING FOR TASK B

RBK      SUBTASK    WORK AUTH.    SYS #    TITLE  
\*\*\*\*\*

	.	3005	7	TASK B - MISSION INTEGRATION, EAC BALANCE SHEET
	.	3005BAA	8	GENERAL COORDINATION
	.	3005BABA	9	TRAJECTORY STUDY - A.F. 83-1 MISSION
85-15	.	3005BABB	10	PRELIMINARY TRAJECTORY FOR AF-16 MISSION
	.	3005BACA	11	A-416 HEATSHIELD DESIGN, SOOS
	.	3005BADA	12	PAYLOAD UMBILICAL DESIGN, SM DL, S-206
	.	3005BADB	13	PAYLOAD UMBILICAL DESIGN, ITV
	.	3005BAEA	14	VEHICLE INTERFACE DRAWING, SM DL, S-206
	.	3005BAEB	15	VEHICLE INTERFACE DRAWING, SOOS
	.	3005BAEC	16	VEHICLE INTERFACE DRAWING, A.F. 83-1, S-205
	.	3005BAFA	17	GSE INTERFACE DRAWING, ITV
	.	3005BAFB	18	GSE INTERFACE DRAWING, SM DL, S-206
	.	3005BAFC	19	GSE INTERFACE DRAWING, A.F. 83-1, S-205



DATE: TUE, APR 30 1985      STATUS:AUT      NO. OF J.O.S: 2      NO. OF MONTHS: 7      SYSTEM ITEM NO.: 279  
 TITLE:REPLACE ANALOG METERS W/DIGITAL IN B/H (GSE WFF & VAFB)      MOD: , , ,      CONTRACTOR:VOUGHT  
 REMARKS:SYS: EGSE. REF. DAL 2985, PA2484. POWER SUPPLY RACK 3.      NASA RESPONSIBLE ENGR:EEH  
 KTR RESPONSIBLE ENGR:SURRATT      RBK:81-47      PURCHASE REQUEST:      CONTRACT:NAS1-16200  
 TASK:R SUBTASK: 10.00      WORK AUTHORITY:3008      WA CODE:KYAA      COMPLETED TASK:YES      TABLE:MANL  
 R.T. HOURS: 124      R.T. MAT-ODC DOLLARS: \$ 223  
 TOTAL AUT HOURS: 124      TOTAL AUT DOLLARS: \$ 4976      FEE: 7.800%

JOB	JOB	PROGRAM NUMBER	ALL %'S	82 %'S	83 %'S	84 %'S	85 %'S	86 %'S	87 %'S	88 %'S	89 %'S
ORDER	SUB										
E80020		49022688800000493	50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E80050		49022808800000493	50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

MM	YR	CMAA	CURRENT EAC		CUM ACTUALS		ESTIMATE AT COMPLETION(EAC)		SCHEDULE & EAC SPREAD		DEVIATIONS		% TIME PASSED
			TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS	TOTAL HOURS	TOTAL DOLLARS	% OF EAC SPENT HOURS	% OF EAC SPENT DOLLARS	% OF AUT SPENT HOURS	% OF AUT SPENT DOLLARS	
FEB	82		0	0	0	0	0	4976	0	0	0	0	14
MAR	82		21	829	52	2070	124	4976	41	41	41	41	28
APR	82		42	1658	82	2791	124	4976	66	56	66	56	42
MAY	82		63	2487	93	3057	124	4976	75	61	75	61	57
JUN	82		84	3316	93	3057	124	4976	75	61	75	61	71
JUL	82		105	4145	93	3057	124	4976	75	61	75	61	85
AUG	82		124	4976	108	3321	108	3321	100	100	87	66	100

NAS1-16200

*****		
* CONTRACT - TASK - FEE TABLE *		
*****		
CONTRACT	T	%
NUMBER	K	FEE
NAS1-16200	A ALL	**.000
NAS1-16200	B ALL	**.000
NAS1-16200	C ALL	0.600
NAS1-16200	D ALL	**.000
NAS1-16200	E ALL	6.060
NAS1-16200	F ALL	**.060
NAS1-16200	G ALL	**.000
NAS1-16200	H ALL	**.060
NAS1-16200	J ALL	0.000
NAS1-16200	K ALL	0.000
NAS1-16200	L ALL	**.020
NAS1-16200	M ALL	0.000
NAS1-16200	N ALL	**.061
NAS1-16200	P ALL	**.010
NAS1-16200	R ALL	0.000
NAS1-16200	S ALL	0.000
NAS1-16200	T ALL	-0.006
NAS1-16200	V ALL	**.020
NAS1-16200	W ALL	0.000
NAS1-16200	X ALL	0.000
NAS1-16200	Y ALL	0.000

NOTE : FEES IN THIS TABLE ARE EXAMPLE ENTRIES

FEE TABLE REPORT

NAS 1-16200

[illegible]

NOTE : RATES IN THIS TABLE ARE EXAMPLE ENTRIES

\*\*\*\*\*

SUSTAINING COSTS TABLE

\*\*\*\*\*

JOB ORDER	SUB TASK	'82%	'83%	'84%	'85%	'86%			
E8002A	ALL	50.000	50.000	50.000	0.000	0.000	0.000	0.000	0.000
K8005A	ALL	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.000
K8002A	ALL	0.000	0.000	0.000	50.000	50.000	50.000	100.000	0.000
E8005A	ALL	50.000	50.000	50.000	0.000	0.000	0.000	0.000	0.000
E7199B	ALL	0.435	5.313	1.792	0.000	0.000	0.000	0.000	0.000
K7207B	ALL	0.000	0.000	0.000	8.333	0.000	0.000	0.000	0.000
K7002B	ALL	0.000	0.000	0.000	16.667	22.222	28.572	0.000	0.000
E7204B	ALL	0.435	0.000	11.077	0.000	0.000	0.000	0.000	0.000
E7205B	ALL	0.106	16.730	0.000	0.000	0.000	0.000	0.000	0.000
E7207B	ALL	0.061	5.225	8.225	0.000	0.000	0.000	0.000	0.000
E8002B	ALL	2.701	0.574	1.169	0.000	0.000	0.000	0.000	0.000
E8005B	ALL	3.271	0.574	1.169	0.000	0.000	0.000	0.000	0.000
E8208B	ALL	0.435	0.000	17.020	0.000	0.000	0.000	0.000	0.000
E8209B	ALL	11.250	1.722	2.124	0.000	0.000	0.000	0.000	0.000
E8210B	ALL	14.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E8211B	ALL	5.758	1.825	7.998	0.000	0.000	0.000	0.000	0.000
E8212B	ALL	5.447	16.033	1.926	0.000	0.000	0.000	0.000	0.000
E8213B	ALL	17.743	1.825	7.998	0.000	0.000	0.000	0.000	0.000
E8214B	ALL	16.506	4.725	24.092	0.000	0.000	0.000	0.000	0.000
E8215B	ALL	21.292	7.250	10.636	0.000	0.000	0.000	0.000	0.000
E8216B	ALL	0.058	18.080	1.686	0.000	0.000	0.000	0.000	0.000
E8217B	ALL	0.000	20.124	3.088	0.000	0.000	0.000	0.000	0.000
K8002B	ALL	0.000	0.000	0.000	41.667	44.445	42.857	100.000	0.000
K8005B	ALL	0.000	0.000	0.000	33.333	33.333	28.571	0.000	0.000
E8000T	1	11.429	14.815	0.000	0.000	0.000	0.000	0.000	0.000
K8005T	ALL	0.000	0.000	50.000	50.000	50.000	50.000	0.000	0.000
K8002T	ALL	0.000	0.000	50.000	50.000	50.000	50.000	100.000	0.000
E8006Z	1	17.142	22.223	0.000	0.000	0.000	0.000	0.000	0.000
E8007Z	1	5.715	7.408	0.000	0.000	0.000	0.000	0.000	0.000
E8210T	1	5.715	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E8211T	1	14.285	18.518	0.000	0.000	0.000	0.000	0.000	0.000
E8213T	1	14.285	18.518	0.000	0.000	0.000	0.000	0.000	0.000
E8214T	1	20.000	18.518	0.000	0.000	0.000	0.000	0.000	0.000
E8217T	1	11.429	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E8000T	2	9.091	11.111	0.000	0.000	0.000	0.000	0.000	0.000
E8006Z	2	13.637	16.667	0.000	0.000	0.000	0.000	0.000	0.000
E8007Z	2	4.546	5.556	0.000	0.000	0.000	0.000	0.000	0.000
E8210T	2	4.546	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E8211T	2	18.181	22.222	0.000	0.000	0.000	0.000	0.000	0.000
E8213T	2	18.181	22.222	0.000	0.000	0.000	0.000	0.000	0.000
E8214T	2	22.727	22.222	0.000	0.000	0.000	0.000	0.000	0.000
E8217T	2	9.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E7002M	1	12.500	6.250	7.143	0.000	16.667	20.000	0.000	0.000
E8209M	1	6.250	3.125	3.571	50.000	0.000	0.000	0.000	0.000
E8208M	1	6.250	3.125	50.000	0.000	0.000	0.000	0.000	0.000
E8005M	7	50.000	50.000	50.000	50.000	50.000	50.000	0.000	0.000
E8005M	6	50.000	50.000	50.000	50.000	50.000	50.000	0.000	0.000
E8005M	5	50.000	50.000	50.000	50.000	50.000	50.000	0.000	0.000
E8002M	7	50.000	50.000	50.000	50.000	50.000	50.000	100.000	100.000
E8002M	6	50.000	50.000	50.000	50.000	50.000	50.000	100.000	100.000
E8002M	5	50.000	50.000	50.000	50.000	50.000	50.000	100.000	100.000
E8005M	4	26.667	26.667	28.571	30.769	33.333	28.572	0.000	0.000
E8002M	4	40.000	40.000	42.857	38.462	44.445	42.857	100.000	100.000
E7207M	4	6.667	6.667	7.143	7.692	0.000	0.000	0.000	0.000
E7206M	4	6.666	6.666	7.143	7.692	0.000	0.000	0.000	0.000
E7205M	4	6.667	6.667	0.000	0.000	0.000	0.000	0.000	0.000
E7002M	4	13.333	13.333	14.286	15.385	22.222	28.571	0.000	0.000
E8005M	3	26.667	26.667	28.571	30.769	33.333	28.572	0.000	0.000
E8002M	3	40.000	40.000	42.857	38.462	44.445	42.857	100.000	100.000
E7207M	3	6.667	6.667	7.143	7.692	0.000	0.000	0.000	0.000
E7206M	3	6.666	6.666	7.143	7.692	0.000	0.000	0.000	0.000
E7205M	3	6.667	6.667	0.000	0.000	0.000	0.000	0.000	0.000
E7002M	3	13.333	13.333	14.286	15.385	22.222	28.571	0.000	0.000
E8005M	1	33.333	20.000	20.000	0.000	50.000	50.000	0.000	0.000
E8002M	1	25.000	12.500	14.286	0.000	33.333	30.000	100.000	100.000
E7207M	1	8.333	5.000	5.000	50.000	0.000	0.000	0.000	0.000
E7205M	1	8.334	50.000	0.000	0.000	0.000	0.000	0.000	0.000

SUSTAINING JOB ORDERS TABLE REPORT

ANALYS J

\*\*\*\*\*  
PROGRAM NUMBER - JOB ORDER TABLE  
\*\*\*\*\*

JOB ORDER	PROGRAM NUMBERS
1244R	18006520300001400
1249R	18017500100001400
1260R	18017500200002400
1277R	18032510500003400
4144A	49002024400000400
4144B	49002044400000400
4144C	49002024400000400
4144D	49002024400000400
4144E	49002024400000400
6192A	49022680600000493
6192B	49021680600000493
6192C	49021680600000493
6192D	49021680600000493
6192E	49022680600000493
6192F	49022680600000493
6192G	49022680600000493
6192H	49001680600000493
6192I	49021680600000493
6192J	49001680600000493
6192K	49022680600000493
6192L	49022680600000493
6192M	49001680600000493
6192N	49021680600000493
6192O	49022680600000493
6192P	49022680600000493
6192Q	49021680600000493
6192R	49022680600000493
6192S	49001680600000493
6192T	49001680600000493
6192U	49022680600000293
6192V	49001680600000493
6192W	49021680600000493
6192X	49021680600000493
6192Y	49001680600000493
6192Z	49001680600000493
7000A	49002027700000400
7000B	49002047700000400
7000C	49002047700000400
7000D	49002047700000400
7000E	49002027700000400
7000F	49002027700000400
7000G	49002027700000400
8209A	49022680800000493
8209B	49021680800000493
8209C	49021680800000493
8209D	49021680800000493
8209E	49022680800000493
8209F	49022680800000493
8209G	49022680800000493
8209H	49001680800000493
8209I	49021680800000493
8209J	49001680800000493
8209K	49022680800000493
8218A	56322850800001493
8218B	56321850800001493
8218C	56321850800001493
8218D	56321850800001493
8218E	56322850800001493
8218F	56322850800001493
8218G	56322850800001493
8218H	56301850800001493
8218I	56321850800001493
8218J	56301850800001493
8218K	56322850800001493
8218L	56322850800001493
8218M	56301850800001493
8218N	56321850800001493
8218O	56322850800001493
8218P	56322850800001493
8218Q	56321850800001493
8218R	56322850800001493
8218S	56301850800001493
8218T	56301850800001493
8218U	56322850800000293
8218V	56301850800001493
8218W	56321850800001493
8218X	56322850800001493
8218Y	56301850800001493
8218Z	56301850800001493

PROGRAM NUMBERS TABLE REPORT

NAS1-16200

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\*  
TIME TABLE FOR ALL TASKS \*  
\*  
\*\*\*\*\*

K	START	ENDING	FIXED VALUES (THOUSANDS)	
			CONTRACT	BASE-FEE
=====			=====	=====
A	10-81	1-86	7805.00	701.96
B	10-81	1-86	358.00	32.20
C	10-81	1-86	344.00	30.94
D	10-81	1-86	833.00	74.92
E	10-81	1-86	2599.00	233.74
F	10-81	1-86	3061.00	275.30
G	10-81	1-86	1455.00	130.86
H	10-81	1-86	3926.00	353.09
I	0- 0	0- 0	0.00	0.00
J	10-81	1-86	0.00	0.00
K	0- 0	0- 0	0.00	0.00
L	10-81	1-86	1266.00	113.86
M	10-81	1-86	0.00	0.00
N	10-81	1-86	10421.00	937.23
O	0- 0	0- 0	0.00	0.00
P	10-81	1-86	754.00	67.81
Q	0- 0	0- 0	0.00	0.00
R	10-81	1-86	0.00	0.00
S	12-84	10-86	2400.00	0.00
T	10-81	1-86	314.00	28.24
U	0- 0	0- 0	0.00	0.00
V	10-81	1-86	999.00	89.85
W	10-81	1-86	0.00	0.00
X	10-81	1-86	0.00	0.00
Y	0- 0	0- 0	0.00	0.00
Z	0- 0	0- 0	0.00	0.00

TIME TABLE REPORT

## 1ST QUARTER 533 REPORT

PAGE ____ OF ____ PAGES																					
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT										FORM APPROVED BUDGET BUREAU NO. 104-R0011			3 REPORT FOR QUARTER BEGINNING (COL. 8A) 1 OCTOBER 1985								
TO: PROCUREMENT DIVISION LANGLEY RESEARCH CENTER HAMPTON, VIRGINIA					FROM: LTV AEROSPACE AND DEFENSE COMPANY VOUGHT MISSILES AND ADVANCED PROGRAMS DIV P O BOX 225907 DALLAS, TEXAS 75265					3 CONTRACT VALUE											
										A COSTS		B FEE									
										\$		\$									
1 DESCRIPTION OF CONTRACT					A TYPE C P F F					B CONTRACT NO AND LATEST DEFINITIZED AMENDMENT NO NAS1-16200					4. FUND LIMITATION \$						
					C SCOPE OF WORK SCOUT SYSTEMS MANAGEMENT					D. SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE					5 BILLING						
															A INVOICE AMTS BILLED \$		B TOTAL PYTS REC'D \$				
					7 HOURS WORKED					B ESTIMATED HOURS TO COMPLETE ( HOURS )					9 ESTIMATED FINAL HOURS						
6 REPORTING CATEGORY					CUMULATIVE ACTUAL PRIOR MONTH	CURRENT MONTH ESTIMATE	CUMULATIVE ESTIMATE TO DATE	MONTH OCT	MONTH NOV	MONTH DEC	QUARTER 2ND	QUARTER 3RD	QUARTER 4TH	BALANCE OF FY. 0	NEXT FY 1987	BALANCE OF CONTRACT	TOTAL TO COMPLETE	CONTRACTOR ESTIMATE	CONTRACT VALUE	10 ESTIMATED COMPLETION DATE	11 UN- FILLED ORDERS OUT- STANDING
TASKS					A	B	C	A.	B	C.	D.	E.	F	G	H	I	J	A			

NOTE : REFER TO APPENDIX E-3  
FOR THE HOURLY DATA FORMATS.





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT										FORM APPROVED BUDGET BUREAU NO. 104-R0011				3. REPORT FOR QUARTER BEGINNING (COL. 8A) 1 JANUARY 1984				
10. PROCUREMENT DIVISION LANGLEY RESEARCH CENTER HAMPTON, VIRGINIA										FROM: LTV AEROSPACE AND DEFENSE COMPANY VOUGHT MISSILES AND DYANCED PROGRAMS DIV. P O BOX 225907 DALLAS, TEXAS 75265				3 CONTRACT VALUE A COSTS \$ 8112000 B FEE \$ 433000				
1. DESCRIPTION OF CONTRACT		A. TYPE C P F F			10 CONTRACT NO AND LATEST DEFINITIZED AMENDMENT NO. NAS1-16200						4 FUND LIMITATION \$ 0		5 BILLING A. INVOICE AMTS BILLED \$ 0 B TOTAL PYTS REC'D \$ 0					
		C. SCOPE OF WORK SCOUT SYSTEMS MANAGEMENT			10. SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE													
6. REPORTING CATEGORY		7. COSTS INCURRED			8 ESTIMATED COST TO COMPLETE (DOLLARS IN 000'S)								9 ESTIMATED FINAL COST		10 ESTIMATED COMPLETION DATE		11 U FILL OPRE OUT STAND	
TASKS		CUMU- LATIVE ACTUAL THRU PRIOR MONTH	CUR- RENT MONTH ESTI- MATE	CUMU- LATIVE ESTI- MATE TO DATE	MONTH JAN	MONTH FEB	MONTH MAR	QUARTER 3RD	QUARTER 4TH	QUARTER	BALANCE OF FY. 0	NEXT FY. 1986	BALANCE OF CONTRACT	TOTAL TO COMPLETE	CON- TRACTOR ESTIMATE	CONTRACT VALUE		
		A	B	C	A	B	C	D	E	F	G	H	I	J	K	L		
J		965	7	972	25	26	22	65	65	0	0	69	402	674	1646	1428		
M		1569	82	1651	41	41	50	77	62	0	0	62	147	480	2131	1100		
R		1801	28	1829	178	228	189	605	605	0	0	612	77	2504	4333	3584		
TOTAL COST		4335	117	4452	244	295	271	747	732	0	0	743	626	3658	8119	8112		
FIXED FEE		338	9	347	19	23	21	58	57	0	0	58	50	286	633	633		
TOTAL CPFF		4673	126	4799	263	318	292	805	789	0	0	801	676	3944	8743	8745		
RETRANSFER OF PERSONNEL		0	0	0	0	0	0	0	0	0	0	0	70	70	70	60		
TOTAL CONTRACT		29915	640	30561	924	990	1089	2707	2711	0	0	2998	2831	13522	44083	46910		

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT										FORM APPROVED BUDGET BUREAU NO 104-R0011		3 REPORT FOR QUARTER BEGINNING (COL 8A) 1 APRIL 1985						
TO: PROCUREMENT DIVISION LANGLEY RESEARCH CENTER HAMPTON, VIRGINIA				FROM: LTV AEROSPACE AND DEFENSE COMPANY VOUGHT MISSILES AND ADVANCED PROGRAMS DIV P O BOX 225907 DALLAS, TEXAS 75265				3 CONTRACT VALUE										
				A COSTS				B FEE										
				\$				\$										
1 DESCRIPTION OF CONTRACT		A TYPE F P I		B CONTRACT NO AND LATEST DEFINITIZED AMENDMENT NO NAS1-16200						4 FUND LIMITATION \$								
		C SCOPE OF WORK SODUT SYSTEMS MANAGEMENT		D SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE						5 BILLING								
										A INVOICE AMTS BILLED \$								
										B TOTAL PYTS REC'D \$								
		7 HOURS WORKED		8 ESTIMATED HOURS TO COMPLETE ( HOURS )								9 ESTIMATED FINAL HOURS						
6 REPORTING CATEGORY		CUMU- LATIVE ACTUAL THRU PRIOR MONTH	CUR- RENT MONTH ESTI- MATE	CUMU- LATIVE ESTI- MATE TO DATE	MONTH APR	MONTH MAY	MONTH JUN	QUARTER 4TH	QUARTER	QUARTER	BALANCE OF FY. 0	NEXT FY 1986	BALANCE OF CONTRACT	TOTAL TO COMPLETE	CON- TRACTOR ESTIMATE	CONTRACT VALUE	10 ESTI- MATED COM- PLETION DATE	11 UN- FILLED ORDERS OUT- STANDING
TASKS		A	B	C	A	B	C	D	E	F	G	H	I	J	A			
A		90270	2527	92797	2084	2084	2084	6248	0	0	0	5759	0	18259	111096	115000		
B		6069	277	6346	260	150	1	5	0	0	0	5	0	421	6767	6700		
C		3463	193	3656	229	374	703	230	0	0	0	885	0	2421	6077	6200		
D		3903	323	4226	0	0	540	2150	0	0	0	3627	0	6317	10543	16400		
E		42613	938	43551	614	321	372	2488	0	0	0	1587	0	5382	48933	50700		
F		51560	1156	52716	865	904	904	3072	0	0	0	3066	0	8811	61527	62300		
G		17821	396	18217	294	294	294	885	0	0	0	836	0	2603	20820	24200		
H		68996	1148	70114	986	426	426	2067	0	0	0	2536	0	6441	76555	83400		
L		21098	638	21736	429	496	496	1488	0	0	0	1488	0	4397	26133	27200		
N		733	635	1368	0	0	0	0	0	0	0	0	0	0	1368	0		
P		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
T		7380	0	7380	0	0	0	0	0	0	0	0	0	0	7380	3000		
Y		16460	428	16896	330	330	330	996	0	0	0	898	0	2884	19780	20700		
TOTAL HOURS THRU G & A		330344	8659	339003	6091	5379	6150	19629	0	0	0	20687	0	57936	396939	415800		
TOTAL FPI		330344	8659	339003	6091	5379	6150	19629	0	0	0	20687	0	57936	396939	415800		

3RD QUARTER 533 REPORT

E-3

## 3RD QUARTER 533 REPORT

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT															FORM APPROVED BUDGET BUREAU NO 104-R0011		3. REPORT FOR QUARTER BEGINNING (COL 8A) 1 APRIL 1985		
TO PROCUREMENT DIVISION LANGLEY RESEARCH CENTER HAMPTON, VIRGINIA			FROM LTV AEROSPACE AND DEFENSE COMPANY YOUGHT MISSILES AND ADVANCED PROGRAMS DIV P O BOX 225907 DALLAS, TEXAS 75265			3 CONTRACT VALUE													
						A COSTS			B FEE										
						\$			\$										
1 DESCRIPTION OF CONTRACT			A TYPE C P F F			B CONTRACT NO AND LATEST DEFINITIZED AMENDMENT NO NAS1-16200			4 FUND LIMITATION \$										
			C SCOPE OF WORK SCOUT SYSTEMS MANAGEMENT			D SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE			DATE			5 BILLING							
												A INVOICE AMTS BILLED \$			B TOTAL PYTS REC'D \$				
			7 HOURS WORKED			8 ESTIMATED HOURS TO COMPLETE ( HOURS )			9 ESTIMATED FINAL HOURS										
6 REPORTING CATEGORY			CUMU- LATIVE ACTUAL THRU PRIOR MONTH	CUR- RENT MONTH ESTI- MATE	CUMU- LATIVE ESTI- MATE TO DATE	MONTH APR	MONTH MAY	MONTH JUN	QUARTER 4TH	QUARTER	QUARTER	BALANCE OF FY 0	NEXT FY 1986	BALANCE OF CONTRACT	TOTAL TO COMPLETE	CON- TRACTOR ESTIMATE	CONTRACT VALUE	10 ESTI- MATED COM- PLETION DATE	11 UN- FILLED ORDERS OUT- STANDING
TASKS			A	B	C	A	B	C	D	E	F	G	H	I	J	A			
J			13619	171	13790	137	136	136	414	0	0	0	412	0	1235	15025	15000		
M			7898	726	8624	473	337	440	965	0	0	0	924	0	3139	11763	9000		
R			17618	509	17127	697	757	1035	2405	0	0	0	2193	0	7087	24214	48000		
TOTAL HOURS			38135	1406	39541	1307	1230	1611	3784	0	0	0	3529	0	11461	51002	72000		
TOTAL CPFF			38135	1406	39541	1307	1230	1611	3784	0	0	0	3529	0	11461	51002	72000		
S			0	0	0	0	0	0	0	0	0	0	13038	0	13038	13038	13038		
TOTAL CONTRACT			368479	10065	378544	7598	6609	7761	23413	0	0	0	37254	0	82435	460979	500838		

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT										FORM APPROVED BUDGET BUREAU NO 104-R0011		3. REPORT FOR QUARTER BEGINNING (COL 8A) 1 JULY 1985												
TO: PROCUREMENT DIVISION LANGLEY RESEARCH CENTER HAMPTON, VIRGINIA					FROM: LTV AEROSPACE AND DEFENSE COMPANY VOUGHT MISSILES AND ADVANCED PROGRAMS DIV. P O BOX 225907 DALLAS, TEXAS 75265					3 CONTRACT VALUE														
					A COSTS					B FEE														
					\$ 34135000					\$ 3070000														
1 DESCRIPTION OF CONTRACT					A TYPE F P I					B CONTRACT NO AND LATEST DEFINITIZED AMENDMENT NO NAS1-16200					4 FUND LIMITATION \$ 123456									
					C SCOPE OF WORK SCOUT SYSTEMS MANAGEMENT					D. SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE ORIGINAL SIGNED BY : 1					5 BILLING									
					A INVOICE AMTS BILLED \$ 98765					B TOTAL PYTS REC'D \$ 3333333														
6 REPORTING CATEGORY					7 COSTS INCURRED					B ESTIMATED COST TO COMPLETE ( DOLLARS IN 000'S )					9 ESTIMATED FINAL COST									
					CUMU- LATIVE ACTUAL THRU PRIOR MONTH	CUR- RENT MONTH ESTI- MATE	CUMU- LATIVE ESTI- MATE TO DATE	MONTH JUL	MONTH AUG	MONTH SEP	QUARTER 1ST	QUARTER 2ND	QUARTER 3RD	BALANCE OF FY 1986	NEXT FY, 1987	BALANCE OF CONTRACT	TOTAL TO COMPLETE	CON- TRACTOR ESTIMATE	CONTRACT VALUE	10 ESTI- MATED COM- PLETION DATE	11 UN- FILLED ORDERS OUT- STANDING			
TASKS					A	B	C	A	B	C	D	E	F	G	H	I	J	A						

NOTE . REFER TO APPENDIX E-2  
FOR THE DOLLAR DATA FORMATS.

4TH QUARTER 533 REPORT

CONTRACT: NAS1-16200

POP 1 REPORT (FIRST HALF OF FISCAL YEAR)

BASED ON EAC'S

ALL RECORDS

ALL TASKS

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:

THU, JUL 11 1985 09:19:45 PM

POP1 REPORT

F-1

ACTUALS THRU MAY 1985  
DATE COMPUTED: THU, JUL 11 1985

	ACTUAL	PLANNED																	
PROG. PROJ.		FY 1985									FY 1986								
SYS. CONTRACT	FY 84 & PRIOR	1ST QTR	JAN	FEB	MAR	APR	MAY	JUN	4TH QTR	FY 85 TOTAL	1ST QTR	2ND QTR	3RD QTR	4TH QTR	FY 86 TOTAL	FY 87 TOTAL	FY 88 TOTAL	GRAND TOTAL	
NAS1-16200 OBLIG.																			
490-400																			
490-483																			
490-492																			
490-493																			
563-493																			
COSTS	29107	2252	592	756	1013	721	824	1193	3183	10534	4699	18			4717	1356	0	45714	
490-400	733	41	4	5	19	2	14	20	54	159	220				220	13	0	1125	
490-483	541	3	6	5	2	2		8	24	50	29				29	55	0	675	
490-492	118									0					0	0	0	118	
490-493	27624	1074	237	329	420	332	356	332	888	3968	924	1			925	74	0	32591	
563-493	91	1134	345	417	572	385	454	833	2217	6357	3526	17			3543	1214	0	11205	
↓																			
UNCOSTED																			

CONTRACT: NAS1-16200

POP 2 REPORT (SECOND HALF OF FISCAL YEAR)

BASED ON EAC'S

ALL RECORDS

ALL TASKS

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:

THU, JUL 11 1985 08:33:11 PM

POP2 REPORT

ANALYSIS FILE - POP 2 OUTPUT  
OSF POP 85 - 2 (IN THOUSANDS OF DOLLARS)

ACTUALS THRU MAY 1985  
DATE COMPUTED:THU, JUL 11 1985

	ACTUAL	PLANNED																	
PROG. PROJ.		FY 1985					FY 1986												
SYS. CONTRACT	FY 84 & PRIOR	THRU JUNE	JULY	AUG	SEP	FY 85 TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	3RD QTR	4TH QTR	FY 86 TOTAL	FY 87 TOTAL	FY 88 TOTAL	GRAND TOTAL	
NAS1-16200 OBLIG.																			
490-400																			
490-483																			
490-492																			
490-493																			
563-493																			
COSTS	29107	7351	1069	1060	1054	10534	1107	1039	2553	18					4717	1356	0	45714	
490-400	733	105	18	18	18	159	49	41	130						220	13	0	1125	
490-483	541	26	8	8	8	50	8	8	13						29	55	0	675	
490-492	118					0									0	0	0	118	
490-493	27624	3080	300	294	294	3968	304	293	327	1					925	74	0	32591	
563-493	91	4140	743	740	734	6357	746	697	2083	17					3543	1214	0	11205	
UNCOSTED																			



CONTRACT: NAS1-16200

COST REPORT BY FISCAL YEAR  
PROGRAM REPORT  
06 FISCAL YEARS 82-87 (ALL)

BASED ON EAC'S

ALL RECORDS

TASK(S) R T

REPORT WITH FEE

ALL PROGRAMS

J.O.: E8 ONLY, ALL VEHICLES

ALL W.A.'S

DATE COMPUTED:  
WED, JUL 10 1985 09:17:57 AM

PROGRAM COST REPORT

ANALYSIS - COST SUMMARY REPORT  
FY TOTAL NAS1-16200

ACTUALS THRU MAY 1985  
DATE COMPUTED:WED, JUL 10 1985

TASK	TOTAL COST	DOD 493	NAVY 492	FOREIGN REIMBURS. 483	NASA 400
R	1,912,789	1,908,538	1,255		2,996
T	491,423	316,777	116,431		58,215
TOTAL	2,404,212	2,225,315	117,686	0	61,211

ANALYSIS - COST SUMMARY REPORT (CONTINUED)  
FY TOTAL NAS1-16200

ACTUALS THRU MAY 1985  
DATE COMPUTED:WED, JUL 10 1985

TASK	TOTAL COST	DOD 493	NAVY 492	FOREIGN REIMBURS. 483	NASA 400
RB	125,082	125,082			
RE	46,427	46,427			
RG	25,446	25,446			
RH	88,050	88,050			
RJ	38,755	38,755			
RN	1,391,610	1,391,610			
RO	15,332	15,332			
RR	144,493	144,493			
RU	2,749	2,749			
RY	21,067	21,067			
RZ	13,778	9,527	1,255		2,996
R TOTALS	1,912,789	1,908,538	1,255	0	2,996

CONTRACT: NAS1-16200

COST REPORT BY FISCAL YEAR  
SUB-JOBORDER REPORT  
06 FISCAL YEARS 82-87 (ALL)

BASED ON EAC'S

ALL RECORDS

TASK(S) R T

REPORT WITH FEE

ALL PROGRAMS

J.O.: E8 ONLY, ALL VEHICLES

ALL W.A.'S

DATE COMPUTED:  
WED, JUL 10 1985 09:19:44 AM

SUB-JOB ORDER COST REPORT

ANALYSIS - COST SUMMARY REPORT  
FY TOTAL      NAS1-16200

ACTUALS THRU MAY 1985  
DATE COMPUTED:WED, JUL 10 1985

TASK	TOTAL COST	DOD 493	NAVY 492	FOREIGN REIMBURS. 483	NASA 400
R B	125,082	125,082			
R E	46,427	46,427			
R G	25,446	25,446			
R H	88,050	88,050			
R J	38,755	38,755			
R N	1,391,610	1,391,610			
R O	15,332	15,332			
R R	144,493	144,493			
R U	2,749	2,749			
R Y	21,067	21,067			
R Z	13,778	9,527	1,255		2,996
T T	374,992	316,777			58,215
T Z	116,431		116,431		
TOTAL	2,404,212	2,225,315	117,686	0	61,211

ALL RECORDS

COST WITHOUT FEE

W.A. 3008 ONLY

TASK R ONLY

ALL PROGRAMS

COST REPORT FOR ALL JOBORDERS

ALL RECORDS

ALL RECORDS OPEN & CLOSED

WA COST REPORT

W. A. REPORT FOR CONTRACT : NAS1-16200

\*\*\*\*\*

R TASKS FOR W.A. NUMBER 3008

STATUS DATE: 5/85

W.A. CODE TITLE  
JOB ORDER FY 82 FY 83 FY 84 FY 85 FY 86 FY 87 TOTAL \$  
\*\*\*\*\*

BBE MODIFY & TEST S-205, A.F. 83-1 (42-IN HEATSHIELD MOD DESIGN)

NASA TOTAL.	0	0	0	0	0	0	0
W.A. TOTAL	11028	1721	0	0	0	0	12749

HAAA MODIFY & TEST S-205, A.F. 83-1 (VEHICLE MODS, TASK H)

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL	880	17796	0	0	0	0	18676

HMAB MODIFY & TEST S-205, A.F. 83-1 (A-519 42-IN HEATSHIELD MODIFICATION)

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	126	92857	0	0	0	0	92983

NFA LAUNCH TEAM INCREASE - WFF SUPPORT TO VAFB BY R-22 PERSONNEL/LABOR

NASA TOTAL.	0	0	0	0	0	0	0
W.A. TOTAL:	0	17098	0	19929	2970	0	39997

NFB WFF LAUNCH TEAM INCREASE - ITV

NASA TOTAL.	0	0	0	0	0	0	0
W.A. TOTAL.	841	350040	412346	377550	87954	0	1228731

GSC SCOUT STANDARD OPERATING PROCEDURES, IMPROVED SPIN BALANCE

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	4869	5640	0	0	0	0	10509

EPAB CASTOR IIA NOZZLE REWORK-S/N'S 808 809 811 813 815 816 818 819 820 & 821

E8 OZ	10.000 %	10.000 %	10.000 %	10.000 %	10.000 %	10.000 %	0
	282	577	0	0	0	0	859
E7206Z	10.000 %	10.000 %	10.000 %	10.000 %	10.000 %	10.000 %	859
	282	577	0	0	0	0	859

NASA TOTAL:	564	1154	0	0	0	0	1718
W.A. TOTAL:	2820	5770	0	0	0	0	8590

\*\*\*\*\*

GRAND TOTALS:

NASA TOTAL:	42916	2130	0	0	0	0	45046
W.A. TOTAL:	254253	771902	582175	465467	99132	0	2172929

WA COST REPORT

G-3A

CONTRACT: NAS1-16200

HOURLY REPORT BY FISCAL YEAR  
PROGRAM REPORT  
06 FISCAL YEARS 82-87 (ALL)

BASED ON ACTUALS

ALL RECORDS

TASK(S) M

REPORT WITHOUT FEE

PROGRAM NO: "\*\*\*\*\*400"

ALL JOB ORDERS

ONLY COMPLETED W.A.'S

DATE COMPUTED:  
THU, JUL 11 1985 04:17:55 PM

PROGRAM HOURLY REPORT

H-1

ANALYSIS - HOURLY SUMMARY REPORT  
FY TOTAL NAS1-16200

ACTUALS THRU MAY 1985  
DATE COMPUTED: THU, JUL 11 1985

TASK	TOTAL HOURS	DOD 493	NAVY 492	FOREIGN REIMBURS. 483	NASA 400
M	91				91
TOTAL	91	0	0	0	91

PROGRAM HOURLY REPORT

H-1A



CONTRACT: NAS1-16200

HOURLY REPORT BY FISCAL YEAR  
SUB-JOBORDER REPORT  
06 FISCAL YEARS 82-87 (ALL)

BASED ON ACTUALS

ALL RECORDS

TASK(S) M

REPORT WITHOUT FEE

PROGRAM NO: "\*\*\*\*\*400"

ALL JOB ORDERS

ONLY COMPLETED W.A.'S

DATE COMPUTED:  
THU, JUL 11 1985 04:19:10 PM

SUB-JOB ORDER HOURLY REPORT

ANALYSIS - HOURLY SUMMARY REPORT  
FY TOTAL NAS1-16200

ACTUALS THRU MAY 1985  
DATE COMPUTED: THU, JUL 11 1985

TASK	TOTAL HOURS	DOD 493	NAVY 492	FOREIGN REIMBURS. 483	NASA 400
M M	91				91
TOTAL	91	0	0	0	91

SUB-JOB ORDER HOURLY REPORT

H-2A

ALL RECORDS

ALL W.A.

TASK R ONLY

PROGRAM NO. 493

HOURLY REPORT FOR ALL JOBS

ALL RECORDS

ALL RECORDS OPEN & CLOSED

WA HOURLY REPORT

W. A. REPORT FOR CONTRACT - NAS1-16200  
 \*\*\*\*\*  
 R TASKS FOR ALL W.A. NUMBERS STATUS DATE. 5/85  
 W.A. CODE TITLE  
 JOB ORDER FY 82 FY 83 FY 84 FY 85 FY 86 FY 87 TOTAL \$  
 \*\*\*\*\*

BBA DYNAMIC RESPONSE ANALYSIS, SOOS SPACECRAFT

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	312	0	0	0	0	0	312

E1AA D SECTION/FOURTH STAGE MOTOR, ATTACH SCREW ACCESS, SOOS

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	68	0	0	0	0	0	68

EEAA ITV INTERFACE HARNESS AND ELECTRICAL EVALUATOR TEST

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	351	541	0	0	0	0	892

EPAA ALTAIR 111A MOTORS, TRANSFER S/N'S 34 & 38 TO NRL (N/C FOR S/N 38)

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	0	0	0	0	0	0	0

HEAA RECONFIGURATION OF TRANSMITTERS (VECTOR) FOR ITV

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	38	0	0	0	0	0	38

KYAA REPLACE ANALOG METERS W/DIGITAL IN B/H (GSE WFF & VAFB)

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	108	0	0	0	0	0	108

HEAB RECONFIG PHASE VII VEHs TO VIII CONFIG, S-199, S-204, S-205 & S-207

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	884	1172	0	0	0	0	2056

EGAA STORAGE & ANNUAL INVENTORY OF TOOLS & TEST EQUIPMENT AT HONEYWELL, INC.

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	12	0	10	0	0	0	22

EEAB INSTL WFF RF COMMUNICATIONS LINK, ITV (PROC. POWER AMPLIFIERS, ETC.)

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	104	7	0	0	0	0	111

\*\*\*\*\*  
 GRAND TOTALS:

NASA TOTAL:	0	0	0	0	0	0	0
W.A. TOTAL:	4204	7993	3296	131	0	0	15624

WA HOURLY REPORT

H-3A

CONTRACT: NAS1-16200

PRORATION OF HOURS

BASED ON ACTUALS

ALL RECORDS

TASK(S) 1 C T

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:

WED, JUL 10 1985 09:14:04 AM

REGULAR PRORATION HOURLY REPORT

## I-1A

STATUS DATE: MAY 1985  
COMPUTED DATE: WED, JUL 10 1985

PHASE		VII										TOTAL (2,850)									
PROGRAM		PASA (317)						NAVY (653)				HILAT		A F		UK		SAN MARCO		PHASE 7	
TASK/VEH	201	202	203	206	HOWE SUP	ENG SUP	192	199	200	204	HOWE SUP	ENG SUP	205	207	198	RANGE	SUBTOTAL				
C				317				653						799	1081			2850	C		
T																		0	T		
SUBTOTAL	0	0	0	317	0	0	0	653	0	0	0	0	799	1081	0	0	2850	SUBTOTAL			
NRL-0492	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1879	NRL-0492			
TOTAL	0	0	0	317	0	0	0	653	0	0	0	0	799	1081	0	0	2850	TOTAL			

STATUS DATE: MAY 1985  
COMPUTED DATE: WED. JUL 10 1985

PHASE		VIII (7,138)														P BEAR PHASE 8		GRAND		
MCCIP NAJA (20)		HAY (5,636)				A F (563)														
TA P/VIIH	HLWL SUP	ENG SUP	208	209	210	211	213	214	HOME SUP	ENG SUP	212	215	216	217	HOME SUP	ENG SUP	218	SUBTOTAL	TOTAL	
C			783	660														1443	4,293	C
T	939				252	1210	1210	1461	60					503	60			5695	5,695	T
SUBTOTAL	939	0	783	660	252	1210	1210	1461	60	0	0	0	0	503	60	0	0	7138	9,988	SUBTOTAL
MRL-0492	0	0	0	0	0	0	0	0	1879	0	0	0	0	0	0	0	0	1879	1,879	MRL-0492
TOTAL	939	0	783	660	252	1210	1210	1461	1939	0	0	0	0	503	60	0	0	9017	11,867	TOTAL

CONTRACT: NAS1-16200

SPECIAL-R PRORATION OF HOURS

BASED ON ACTUALS

ALL RECORDS

TASK(S) R

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:

WED, JUL 10 1985 09:13:14 AM

SPECIAL R SUBTASK PRORATION HOURLY REPORT





CONTRACT: NAS1-16200

SUB-PRORATION OF HOURS

BASED ON ACTUALS

ALL RECORDS

TASK(S) A C T

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:  
WED, JUL 10 1985 09:12:06 AM

SUB-JOB ORDER PRORATION HOURLY REPORT

## SUB-JOB ORDER PRORATION HOURLY REPORT

I-3A

CONTRACT NUMBER NAS1-16200 PRORATION OF HOURS STATUS DATE MAY 1985  
PAGE 1 OF 2 COMPUTED DATE: WED, JUL 10 1985

PHASE VII

PROGRAM	NASA	NAVY	HILAT	A F	UK	SAN MARCO	PHASE 7											
TASK/VEH	201	202	203	206	HOWE SUP	ENG SUP	192	199	200	204	HOWE SUP	ENG SUP	205	207	198	RANGE	SUBTOTAL	
A A																	0	A A
C C				317				653					799	1081			2850	C C
T T																	0	T T
SUBTOTAL	0	0	0	317	0	0	0	653	0	0	0	0	799	1081	0	0	2850	SUBTOTAL
NRL-0492	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NRL-0492
TOTAL	0	0	0	317	0	0	0	653	0	0	0	0	799	1081	0	0	2850	TOTAL

CONTRACT NUMBER NAS1-16200 PRORATION OF HOURS STATUS DATE MAY 1985  
PAGE 2 OF 2 COMPUTED DATE: WED, JUL 10 1985

PHASE VIII

PP	DATA	NASA	NAVY	A F	P	BEAR	PHASE 8	GHA D												
TASK/VEH	HOWE SUP	ENG SUP	208	207	210	211	213	214	HOWE SUP	ENG SUP	212	215	216	217	HOWE SUP	ENG SUP	218	SUBTOTAL	TOTAL	
A A																		96618	96,618	A A
C C			783	660														1443	4,293	C C
T T	932				252	1210	1210	1461	60					503	60			5695	5,695	T T
SUBTOTAL	939	0	783	660	252	1210	1210	1461	60	48309	0	0	0	503	60	48309	0	103756	106,606	SUBTOTAL
NRL-0492	0	0	0	0	0	0	0	0	1879	0	0	0	0	0	0	0	0	1879	1,879	NRL-0492
TOTAL	939	0	783	660	252	1210	1210	1461	1939	48309	0	0	0	503	60	48309	0	105635	108,485	TOTAL

CONTRACT: NAS1-16200

PRORATION OF COSTS

BASED ON EAC'S

MANUAL RECORDS ONLY

TASK(S) R J M E

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ONLY OPEN W.A.'S

DATE COMPUTED:  
WED, JUL 10 1985 09:10:53 AM

REGULAR PRORATION OF COSTS REPORT

J-1

REGULAR PRORATION OF COSTS REPORT

J-1A

CONTRACT NUMBER NAS1-16200 PRORATION OF COSTS														STATUS DATE: MAY 1985			
PAGE 1 OF 2														COMPUTED DATE: WED, JUL 10 1985			
PHASE VII TOTAL (\$142,777)																	
FUND/PM NASA (\$30,635) NAVY (\$35,379) MILAT A F UK SAN MARCO PHASE 7																	
TASK/VEH	201	202	203	206	HOWE SUP	ENG SUP	192	199	200	204	HOWE SUP	ENG SUP	205	207	198	RANGE	SUBTOTAL
E				30635				32456		2923				26236			92250 E
J																32095	32095 J
M																	0 M
R													18432				18432 R
TOTAL	0	0	0	30635	0	0	0	32456	0	2923	0	0	18432	26236	0	32095	142777 TOTAL

CONTRACT NUMBER: NAS1-16200 PRORATION OF COSTS														STATUS DATE: MAY 1985			
PAGE 2 OF 2														COMPUTED DATE: WED, JUL 10 1985			
PHASE VIII (\$5,650,853)																	
FUND/PM NASA (\$0) NAVY (\$2,508,266) A F (\$2,182,428) P BEAR PHASE 8 GR-NO																	
TASK/VEH	HOWE SUP	ENG SUP	208	209	210	211	213	214	HOWE SUP	ENG SUP	212	215	216	217	HOWE SUP	ENG SUP	218 SUBTOTAL TOTAL
E				31689		2922				104807	5848	27946				64406	237618 329,868 E
J																	0 32,095 J
M				66563		18304	18304	95483	1802511		98944	76266	87128	86537		67782	2417822 2,417,822 M
R									331841	35842					331842	1335729	960159 2995413 3,013,845 R
TOTAL	0	0	0	98252	0	21226	18304	95483	2134352	140649	104792	104212	87128	86537	331842	1467917	960159 5650853 \$5,793,630 TOTAL

CONTRACT: NAS1-16200

SPECIAL-R PRORATION OF COSTS

BASED ON EAC'S

MANUAL RECORDS ONLY

TASK(S) R

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ONLY OPEN W.A.'S

DATE COMPUTED:

WED, JUL 10 1985 09:09:42 AM

SPECIAL R SUBTASK PRORATION OF COSTS REPORT



CONTRACT: NAS1-16200

SUB-PRORATION OF COSTS

BASED ON EAC'S

MANUAL RECORDS ONLY

TASK(S) R M J E

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ONLY OPEN W.A.'S

DATE COMPUTED:

WED, JUL 10 1985 09:08:35 AM

SUB-JOB ORDER PRORATION OF COSTS REPORT





DOD HARDWARE COSTS REPORT

K-1

		DOD HARDWARE COSTS (THU, JUL 11 1985)								PAGE 3
		1979	1980	1981	1982	1983	1984	1985	1986	TOTAL
E G										
	NAS1-15000(N)	17,356N	11,185N	15,405N						43,946N
	(I)	11,571I	7,456I	10,807I						29,834I
	TOTAL	28,927	18,641	26,212						73,780
G G										
	NAS1-15000(N)			623,739N	46,144N					669,883N
	(I)			902I						902I
	NAS1-16200(N)			5,797N	400,415N	144,538N	674,540N	537,035N	178,946N	1,941,271N
	(H)				595H	151,283H				151,878H
	(I)			5,796I	178,416I	608,446I	246,080I	383,588I	89,471I	1,511,797I
	TOTAL			636,234	625,570	904,267	920,620	920,623	268,417	4,275,731
R G										
	NAS1-16200(N)				18,668N	42,670N				61,338N
	(H)				9,334H	21,335H				30,669H
	(I)				18,512I	39,090I				57,602I
	TOTAL				46,514	103,095				149,609
TOTAL -- G (N)		17,356N	11,185N	644,941N	465,227N	187,208N	674,540N	537,035N	178,946N	2,716,438N
	(H)				9,929H	172,618H				182,547H
	(I)	11,571I	7,456I	17,505I	196,928I	647,536I	246,080I	383,588I	89,471I	1,600,135I
	TOTAL	28,927	18,641	662,446	672,084	1,007,362	920,620	920,623	268,417	4,499,120
TOTAL -- I (N)		87,741N	395,183N	163,500N	153,930N	297,130N	120,287N			1,217,771N
	(H)				99,700H	8,998H				108,698H
	(I)					3,887I				3,887I
	TOTAL	87,741	395,183	163,500	253,630	310,015	120,287			1,330,356
	(See Attachment)									
E K										
	NAS1-15000(N)				1,576N					1,576N
	(I)				1,262I					1,262I
	TOTAL				2,838					2,838

DOD MISSION COSTS REPORT

K-2

		DOD MISSION COSTS (THU, JUL 11 1985)								PAGE 3
		1979	1980	1981	1982	1983	1984	1985	1986	TOTAL
E G										
	NAS1-15000(N)	17,356N	11,185N	15,405N						43,946N
	(I)	11,571I	7,456I	10,807I						29,834I
	TOTAL	28,927	18,641	26,212						73,780
G G										
	NAS1-15000(N)			623,739N	46,144N					669,883N
	(I)			902I						902I
	NAS1-16200(N)			5,797N	400,415N	144,538N	674,540N	537,035N	178,946N	1,941,271N
	(H)				595H	151,283H				151,878H
	(I)			5,796I	178,416I	608,446I	246,080I	383,588I	89,471I	1,511,797I
	TOTAL			636,234	625,570	904,267	920,620	920,623	268,417	4,275,731
R G										
	NAS1-16200(N)				18,668N	42,670N				61,338N
	(H)				9,334H	21,335H				30,669H
	(I)				18,512I	39,090I				57,602I
	TOTAL				46,514	103,095				149,609
TOTAL -- G (N)		17,356N	11,185N	644,941N	465,227N	187,208N	674,540N	537,035N	178,946N	2,716,438N
(H)					9,929H	172,618H				182,547H
(I)		11,571I	7,456I	17,505I	196,928I	647,536I	246,080I	383,588I	89,471I	1,600,135I
TOTAL		28,927	18,641	662,446	672,084	1,007,362	920,620	920,623	268,417	4,499,120
TOTAL -- I (N)		87,741N	395,183N	163,500N	153,930N	297,130N	120,287N			1,217,771N
(H)					99,700H	8,998H				108,698H
(I)						3,887I				3,887I
TOTAL		87,741	395,183	163,500	253,630	310,015	120,287			1,330,356
(See Attachment)										
E K										
	NAS1-15000(N)				1,576N					1,576N
	(I)				1,262I					1,262I
	TOTAL				2,838					2,838

DOD ANNUAL COSTS REPORT

K-3

		DOD ANNUAL COSTS (THU, JUL 11 1985)								PAGE 3
		1979	1980	1981	1982	1983	1984	1985	1986	TOTAL
<hr/>										
E G										
	NAS1-15000(N)	17,356N	11,185N	15,405N						43,946N
	(I)	11,571I	7,456I	10,807I						29,834I
	TOTAL	28,927	18,641	26,212						73,780
G G										
	NAS1-15000(N)			623,739N	46,144N					669,883N
	(I)			902I						902I
	NAS1-16200(N)			5,797N	400,415N	144,538N	674,540N	537,035N	178,946N	1,941,271N
	(H)				595H	151,283H				151,878H
	(I)			5,796I	178,416I	608,446I	246,080I	383,588I	89,471I	1,511,797I
	TOTAL			636,234	625,570	904,267	920,620	920,623	268,417	4,275,731
R G										
	NAS1-16200(N)				18,668N	42,670N				61,338N
	(H)				9,334H	21,335H				30,669H
	(I)				18,512I	39,090I				57,602I
	TOTAL				46,514	103,095				149,609
TOTAL -- G (N)		17,356N	11,185N	644,941N	465,227N	187,208N	674,540N	537,035N	178,946N	2,716,438N
	(H)				9,929H	172,618H				182,547H
	(I)	11,571I	7,456I	17,505I	196,928I	647,536I	246,080I	383,588I	89,471I	1,600,135I
	TOTAL	28,927	18,641	662,446	672,084	1,007,362	920,620	920,623	268,417	4,499,120
TOTAL -- I (N)		87,741N	395,183N	163,500N	153,930N	297,130N	120,287N			1,217,771N
	(H)				99,700H	8,998H				108,698H
	(I)					3,887I				3,887I
	TOTAL	87,741	395,183	163,500	253,630	310,015	120,287			1,330,356
	(See Attachment)									
E K										
	NAS1-15000(N)				1,576N					1,576N
	(I)				1,262I					1,262I
	TOTAL				2,838					2,838

**THE UNIVERSITY OF CHICAGO**

STATUS DATE: MAY 85

TASK	AUTHOR. HOURS	AUTHOR. DOLLARS	BALANCE HOURS	BALANCE DOLLARS	BUDGETED HOURS	BUDGETED DOLLARS	FUTURE HOURS	FUTURE DOLLARS	TOTAL HOURS	TOTAL DOLLARS	TOTAL WITH FEE
*****											
A	111058	7135867	45	133	111103	7136000	0	0	111103	7136000	7980902
B	6670	333517	30	4484	6700	338001	0	0	6700	338001	373778
C	6139	333441	661	37559	6800	371000	0	0	6800	371000	402917
D	10552	526772	4648	234228	15200	761000	0	0	15200	761000	850608
E	52492	2697701	2009	102301	54501	2800002	0	0	54501	2800002	2978166
F	61440	2982818	57	186	61497	2983004	0	0	61497	2983004	3336788
G	21636	1154877	68	1123	21704	1156000	0	0	21704	1156000	1339145
H	79713	3485619	87	381	79800	3486000	0	0	79800	3486000	4021763
J	15028	1152845	472	93155	15500	1246000	0	0	15500	1246000	1343188
L	26089	878462	12	542	26101	879004	0	0	26101	879004	1080507
M	25076	2128726	1424	51274	26500	2180000	0	0	26500	2180000	2350040
N	1471	9219911	0	89	1471	9220000	0	0	1471	9220000	10516424
P	0	624448	0	552	0	625000	0	0	0	625000	731363
R	24788	3723226	212	962774	25000	4686000	0	0	25000	4686000	5051508
S	16175	1135760	0	0	16175	1135760	0	0	16175	1135760	1135760
T	7510	538625	0	26	7510	538651	0	0	7510	538651	509101
V	19786	867799	17	24201	19803	892000	0	0	19803	892000	1041142
W	0	120000	0	480000	0	600000	0	0	0	600000	600000
X	0	27976	0	42024	0	70000	0	0	0	70000	70000
*****											
TOTAL	485623	39068390	9742	2035032	495365	41103422	0	0	495365	41103422	45713100
*****											

# BALANCE SHEET REPORT

1-7

JUL. 10, 1985

TO : VC / PAUL GATES  
FROM : NASA / D.C. MC CRACKEN

PLEASE REPORT ON THE STATUS AND MAKE THE NECESSARY  
CHANGES FOR THE FOLLOWING W.A.'S.

FORWARD COPIES OF THOSE WHICH ARE CLOSED.

```
*****  
W.A. NUMBER      *    COMPLETE    *    ESTIMATED MONTH  
                  *    YES * NO    *    TO BE COMPLETED  
*****  
3005CBAD         *          *          *  
3005CBBF         *          *          *  
3005CDAG         *          *          *  
3005HAJ          *          *          *  
3005HBCF         *          *          *  
3007MLDF         *          *          *  
3007MLDJ         *          *          *  
3007MLFJ         *          *          *  
3007MLFN         *          *          *
```

WA STATUS REPORT

M-1

PROCESSING REPORT  
CONTRACT NAS1-16200 TASK H  
FOR FY 85

WA CODE    VEH. NO.    VEH. COST    PERCENTAGE    SUST.    WA TOTAL

HAE	7206	1122	0.359	450.	1572.
HAI	8209	132000	42.285	52947.	184947.
HAN	7207	22093	7.077	8861.	30954.
HAT	8212	32784	10.502	13151.	45935.
HAV	8215	13462	4.312	5398.	18860.
HBCF	8209	10278	3.292	4124.	14402.
HBCF	8211	10278	3.292	4124.	14402.
HBCF	8213	10278	3.292	4124.	14402.
HBCF	8214	10278	3.292	4124.	14402.
HBAA	8218	69597	22.295	27917.	97514.
*****					
TOTAL COSTS		312170		125220	437390
*****					

SUSTAINING COSTS

VEH. NO.	HAA	HCAA	HCAC	HCAD	HQA	HQB
7206	97	0	142	66	128	17
8209	11378	0	16684	7751	15085	2049
7207	1904	0	2792	1297	2525	343
8212	2826	0	4144	1925	3747	509
8215	1160	0	1701	790	1538	209
8209	886	0	1299	604	1175	160
8211	886	0	1299	604	1175	160
8213	886	0	1299	604	1175	160
8214	886	0	1299	604	1175	160
8218	5999	0	8797	4087	7954	1080
-----						
TOTAL	26908	0	39456	18330	35676	4846

PROCESSING REPORT

ACTUAL ODC DOLLARS

TASK A =	781602
TASK B =	32848
TASK C =	12859
TASK D =	11871
TASK E =	149493
TASK F =	74828
TASK G =	187830
TASK H =	213748
TASK J =	360217
TASK L =	17189
TASK M =	750894
TASK N =	5279304
TASK P =	346593
TASK R =	799207
TASK T =	173373
TASK V =	73709
	<hr/>
TOTAL =	9265565

ACTUAL SUMMARY REPORT

TASK SUMMARY FOR CONTRACT 16200  
( DOLLARS INCLUDE ALL COSTS EXCEPT FEE )

STATUS DATE MAY 85

DATE COMPUTED 07/11/85

TASK	ACTUALS HOURS DOLLARS	ESTIMATE-TO-COMplete HOURS DOLLARS	COMMITTED EAC HOURS DOLLARS	UNCOMMITTED EAC HOURS DOLLARS	AUTHORIZED EAC HOURS DOLLARS	% TIME PASSED	% ACTUALS/EAC HOURS DOLLARS
A	96345 6044844	14713 1091023	111058 7135867	45 133	111103 7136000 (115000 7805000)	84.62	86.7 84.7
B	6670 333517	0 0	6670 333517	30 4484	6700 338001 ( 6700 358000)	84.62	99.6 98.7
C	4293 217340	1846 116101	6139 333441	661 37559	6800 371000 ( 6200 344000)	84.62	63.1 58.6
D	4226 205056	6326 321716	10552 526772	4648 234228	15200 761000 ( 16400 833000)	84.62	27.8 26.9
E	48614 2416790	3878 280911	52492 2697701	2009 102301	54501 2800002 ( 50700 2599000)	84.62	89.2 86.3
F	54506 2616145	6934 366673	61440 2982818	57 186	61497 2983004 ( 62300 3061000)	84.62	88.6 87.7
G	19754 1038219	1882 116658	21636 1154877	68 1123	21704 1156000 ( 24200 1455000)	84.62	91.0 89.8
H	75427 3290960	4286 194659	79713 3485619	87 381	79800 3486000 ( 83400 3926000)	84.62	94.5 94.4
J	13849 1017837	1179 135008	15028 1152845	472 93155	15500 1246000 ( 15000 1428000)	84.62	89.3 81.7
L	22533 737764	3556 140698	26089 878462	12 542	26101 879004 ( 27200 1266000)	84.62	86.3 83.9
M	21658 1857076	3418 271650	25076 2128726	1424 51274	26500 2180000 ( 9000 1100000)	84.62	81.7 85.2
N	1471 7809602	0 1410309	1471 9219911	0 89	1471 9220000 ( 0 10421000)	84.62	100.0 84.7
P	0 512626	0 111822	0 624448	0 552	0 625000 ( 0 754000)	84.62	0.0 82.0
R	18425 2040113	6363 1683113	24788 3723226	212 962774	25000 4686000 ( 48000 5584000)	84.62	73.7 43.5
S	0 0	16175 1135760	16175 1135760	0 0	16175 1135760 ( 13038 2400000)	26.09	0.0 0.0
T	7500 534651	10 3974	7510 538625	0 26	7510 538651 ( 3000 314000)	84.62	99.9 99.3
Y	17574 767944	2212 99855	19786 867799	17 24201	19803 892000 ( 20700 999000)	84.62	88.7 86.1
W	0 60000	0 60000	0 120000	0 480000	0 600000 ( 0 900000)	84.62	0.0 10.0
X	0 0	0 27976	0 27976	0 42024	0 70000 ( 0 60000)	84.62	0.0 0.0
<hr/>							
	412845 31500484	72778 7567906	485623 39068390	9742 2035032	495365 41103422	TOTALS	83.3 76.6

TASK SUMMARY REPORT



W.A. SUMMARY FOR CONTRACT 16200  
( DOLLARS INCLUDE ALL COSTS EXCEPT FEE )

STATUS DATE: MAY 85

DATE COMPUTED: 07/10/85

RESPONSIBLE ENGINEER: CMW

WAN CODE	SUBTASK	ACTUALS		ESTIMATE-TO-COMPLETE		EAC		SCHEDULE & EAC SPREAD		DEVIATIONS		% TIME PASSED
		HOURS	DOLLARS	HOURS	DOLLARS	HOURS	DOLLARS	% OF EAC	DOLLARS	% OF AUT	DOLLARS	
3008NFA	22	0	33067	0	6930	0	39997	0.00	82.67	0.00	26.56	83.33
3008NFB	22	339	1023506	0	205225	339	1228731	100.00	83.30	40.75	67.55	83.33

W.A. SUMMARY FOR CONTRACT 16200  
( DOLLARS INCLUDE ALL COSTS EXCEPT FEE )

STATUS DATE: MAY 85

DATE COMPUTED: 07/10/85

RESPONSIBLE ENGINEER: DMF

WAN CODE	SUBTASK	ACTUALS		ESTIMATE-TO-COMPLETE		EAC		SCHEDULE & EAC SPREAD		DEVIATIONS		% TIME PASSED
		HOURS	DOLLARS	HOURS	DOLLARS	HOURS	DOLLARS	% OF EAC	DOLLARS	% OF AUT	DOLLARS	
3008EGAA	12	21	12491	0	8209	21	20700	100.00	60.34	105.00	89.27	86.00

VARIANCE SUMMARY FOR CONTRACT 16200

( DOLLARS INCLUDE ALL COSTS EXCEPT FEE )

STATUS DATE: MAY 85

DATE COMPUTED: 07/11/85

TASK	CONTRACT HOURS	VALUE DOLLARS	COMMITTED HOURS	EAC DOLLARS	EST. HOURS	VARIANCE DOLLARS	% TIME PASSED	% VARIANCE/CV HOURS	DOLLARS
<u>FPI</u>									
A	115000	7805000	111058	7135867	-3942	-669133	84.62	-3.4	-8.6
B	6700	358000	6670	333517	-30	-24483	84.62	-0.4	-6.8
C	6200	344000	6139	333441	-61	-10559	84.62	-1.0	-3.1
D	16400	833000	10552	526772	-5848	-306228	84.62	-35.7	-36.8
E	50700	2599000	52492	2697701	1792	98701	84.62	3.5	3.8
F	62300	3061000	61440	2982818	-860	-78182	84.62	-1.4	-2.6
G	24200	1455000	21636	1154877	-2564	-300123	84.62	-10.6	-20.6
H	83400	3926000	79713	3485619	-3687	-440381	84.62	-4.4	-11.2
L	27200	1266000	26089	878462	-1111	-387538	84.62	-4.1	-30.6
N	0	10421000	1471	9219911	1471	-1201089	84.62	0.0	-11.5
P	0	754000	0	624448	0	-129552	84.62	0.0	-17.2
T	3000	314000	7510	538625	4510	224625	84.62	150.3	71.5
V	20700	999000	19786	867799	-914	-131201	84.62	-4.4	-13.1
W	0	900000	0	120000	0	-780000	84.62	0.0	-86.7
<u>CPFF</u>									
J	15000	1428000	15028	1152845	28	-275155	84.62	0.2	-19.3
M	9000	1100000	25076	2128726	16076	1028726	84.62	178.6	93.5
R	48000	5584000	24788	3723226	-23212	-1860774	84.62	-48.4	-33.3
<u>OTHER</u>									
S	13038	2400000	16175	1135760	3137	-1264240	26.09	24.1	-52.7
X	0	60000	0	27976	0	-32024	84.62	0.0	-53.4
<hr/>									
	500838	45607000	485623	39068390	-15215	-6538610	TOTALS	-3.0	-14.3

VARIANCE SUMMARY REPORT

CONTRACT: NAS1-16200

MIN-MAX-YEAR REPORT BY FISCAL YEAR  
DOLLARS AND HOURS REPORT

BASED ON EAC'S

ALL RECORDS

ALL TASKS

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:  
WED, JUL 10 1985 08:52:38 AM

YEARLY MIN-MAX REPORT

FIRST MONTH IN CONTRACT NAS1-16200 = MAR 1981  
LAST MONTH IN CONTRACT NAS1-16200 = OCT 1986

SUMMARY BY FISCAL YEAR

YEAR	DOLLARS	HOURS
----	-----	-----
1982	\$7,392,642	112,886
1983	\$9,621,791	135,711
1984	\$8,993,474	105,783
1985	\$21,378,922	219,004
1986	\$14,912,608	160,834
1987	\$7,609,192	74,081
----	-----	-----
TOTAL	\$69,908,629	808,299

SUMMARY BY CALENDAR YEAR

YEAR	DOLLARS	HOURS
----	-----	-----
1981	\$968,260	15,943
1982	\$8,673,086	130,885
1983	\$9,451,873	130,915
1984	\$8,929,627	98,368
1985	\$34,018,400	357,697
1986	\$7,867,383	74,491
----	-----	-----
TOTAL	\$69,908,629	808,299

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